

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](mailto: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:  
PALOMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 9/28/2022  
Invoice #: 0363699  
Lease Name: The Times They Are  
Well #: A Changin' #1 (New)  
County: Scott, Ks  
Job Number: WP3435  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface Top Off	0.000	0.000	0.00
Cement Class A	75.000	19.000	1,425.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Light Eq Mileage	70.000	2.000	140.00
Heavy Eq Mileage	140.000	4.000	560.00
Ton Mileage-Minimum	1.000	300.000	300.00
Cement Blending & Mixing	75.000	1.400	105.00
Service Supervisor	1.000	275.000	275.00

**Total** 3,805.00

**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!**



Customer	Palomino Petroleum	Lease & Well #	The Time They Are A Changin #1		Date	9/28/2022
Service District	Oakley KS	County & State	Scott KS	Legals S/T/R	36-20S-34W	Job #
Job Type	Surface Top Off	<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD	New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Ticket # WP 3435	

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
73	John	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
208	Jose V	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
180-254	Kale	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input 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	List Price/Unit	Gross Amount	Item Discount	Net Amount
CP010	Class A Cement	sack	75.00				\$1,425.00
D010	Depth Charge: 0'-500'	job	1.00				\$1,000.00
M015	Light Equipment Mileage	mi	70.00				\$140.00
M010	Heavy Equipment Mileage	mi	140.00				\$560.00
M025	Ton Mileage - Minimum	each	1.00				\$300.00
C060	Cement Blending & Mixing Service	sack	75.00				\$105.00
R061	Service Supervisor	day	1.00				\$275.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?		Net:	\$3,805.00
<p>Based on this job, how likely is it you would recommend HSI to a colleague?</p> <p><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"/> <input type="checkbox"/></p> <p>Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely</p>		<p>Total Taxable \$ - Tax Rate:</p> <p>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.</p> <p>Sale Tax: \$ -</p> <p>Total: \$ 3,805.00</p>	
<p>HSI Representative: <i>John Polley</i></p>			

**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:	Palomino Petroleum	Well:	The Time They Are A Changin #1	Ticket:	WP 3435
City, State:	Friend KS	County:	Scott KS	Date:	9/28/2022
Field Rep:	Juan	S-T-R:	36-20S-34W	Service:	Surface Top Off

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	Neat A	Blend:	
Hole Depth:	226 ft	Weight:	16.0 ppg	Weight:	ppg
Casing Size:	8 5/8 in	Water / Sx:	5.0 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.12 ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	bbls	Total Slurry:	9.9 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	50 sx	Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:49 AM			-	-	Arrived on location
7:59 AM				-	Safety meeting
8:09 AM				-	Rigged up
8:21 AM	2.2	50.0	9.9	9.9	Mixed 50 sacks Class A Neat cement @ 16.0 ppg
8:26 AM				9.9	Shut down, washed up and waited 30 minutes for cement to fall
8:56 AM				9.9	Cement fell 4-8 inches
8:58 AM				9.9	Pumped remaining water off and rigged down
9:10 AM				9.9	Blew 25 sacks cement into 55 gallon barrel
9:18 AM				9.9	Left location
				9.9	
				9.9	

	CREW		UNIT	SUMMARY		
	Cementer:	John		73	Average Rate	Average Pressure
	Pump Operator:	Jose V	208	2.2 bpm	50 psi	10 bbls
Bulk #1:	Kale	180-254				
Bulk #2:						



**HURRICANE SERVICES INC**



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

Customer:  
PALOMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 9/28/2022  
Invoice #: 0363700  
Lease Name: The Times They Are A  
Well #: A Changin' #1 (New)  
County: Scott, Ks  
Job Number: WP3434  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	200.000	22.500	4,500.00
Light Eq Mileage	70.000	2.000	140.00
Heavy Eq Mileage	140.000	4.000	560.00
Ton Mileage	658.000	1.500	987.00
Depth Charge 0'-500'	1.000	1,000.000	1,000.00
Cement Blending & Mixing	200.000	1.400	280.00
Service Supervisor	1.000	275.000	275.00

**Total** 7,742.00

**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.

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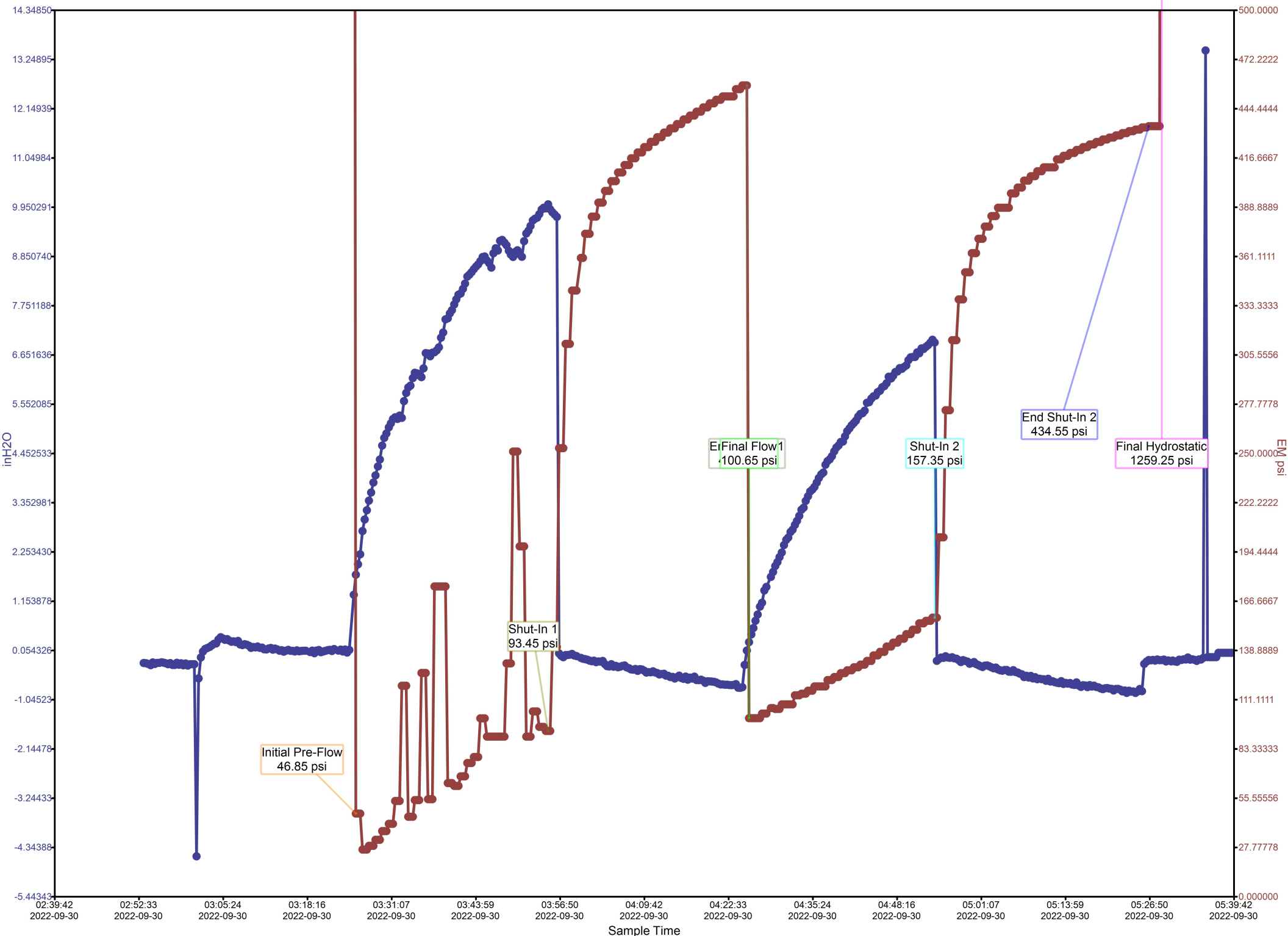
**WE APPRECIATE YOUR BUSINESS!**



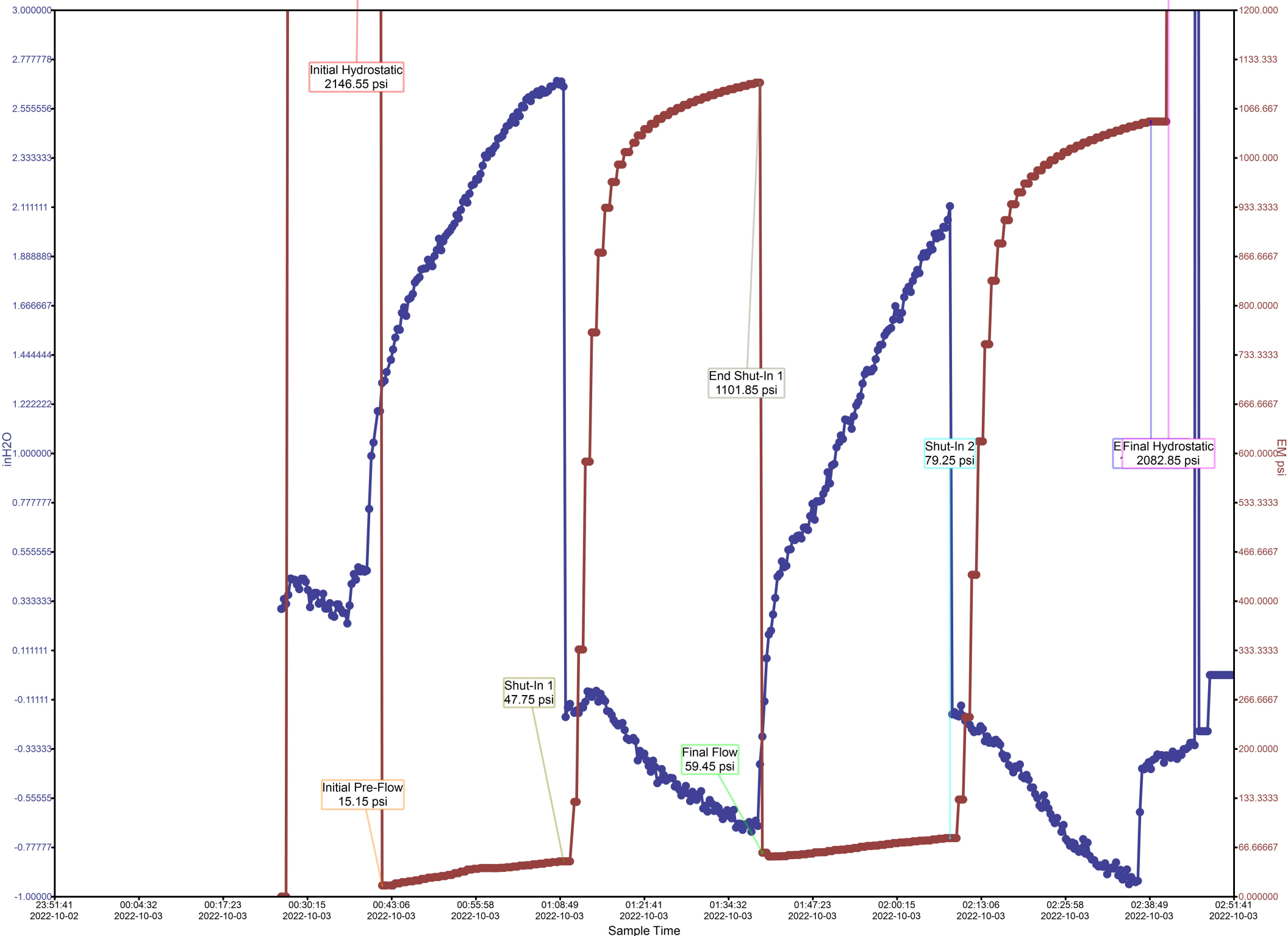




# Palomino Petroleum - The Times They Are A changin 1 - DST #1



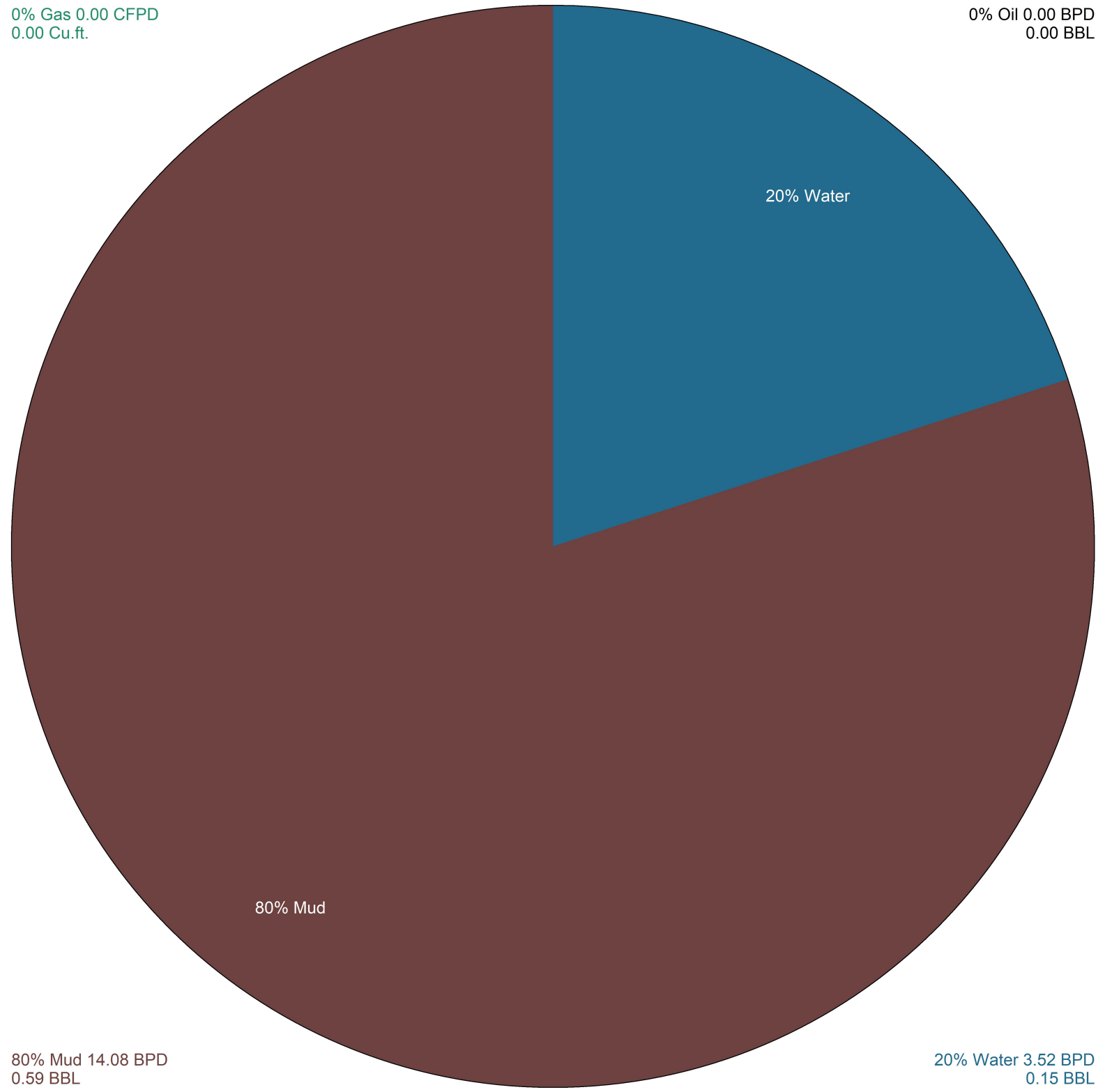
# Palomino Petroleum - The Times They Are A changin 1 - DST #2



Calculated Recovery Analysis - Palomino Petroleum - The Times They Are A changin 1 - DST #2

0% Gas 0.00 CFPD  
0.00 Cu.ft.

0% Oil 0.00 BPD  
0.00 BBL



80% Mud

20% Water

80% Mud 14.08 BPD  
0.59 BBL

20% Water 3.52 BPD  
0.15 BBL



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
New ton Ks  
ATTN: Ryan Seib

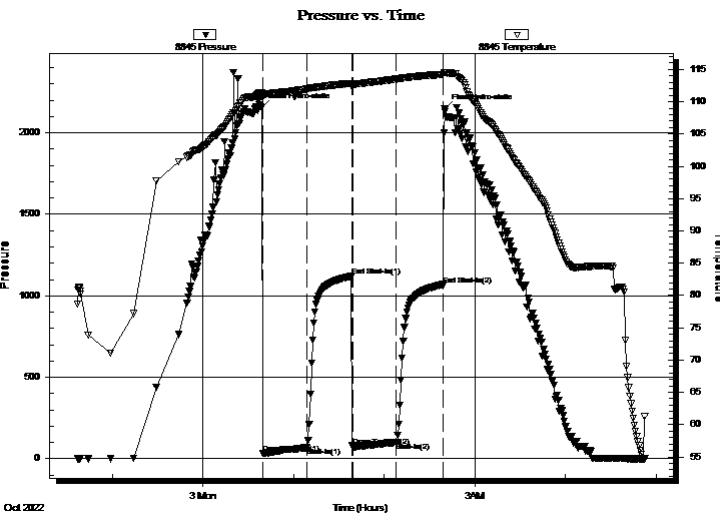
**26 20s 34w Scott, Ks**  
**TTTA A-changin' #1**  
Job Ticket: 69180 **DST#: 2**  
Test Start: 2022.10.02 @ 22:37:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:39:30  
Time Test Ended: 04:53:00  
Interval: **4340.00 ft (KB) To 4444.00 ft (KB) (TVD)**  
Total Depth: 4444.00 ft (KB) (TVD)  
Hole Diameter: 788.00 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 2967.00 ft (KB)  
2957.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**  
Press@RunDepth: 100.52 psig @ 4341.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.10.02 End Date: 2022.10.03 Last Calib.: 2022.10.03  
Start Time: 22:37:05 End Time: 04:52:59 Time On Btm: 2022.10.03 @ 00:39:15  
Time Off Btm: 2022.10.03 @ 02:40:00

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.04	111.44	Initial Hydro-static
1	31.72	110.66	Open To Flow (1)
30	67.73	111.98	Shut-In(1)
60	1120.68	112.85	End Shut-In(1)
60	77.66	112.67	Open To Flow (2)
89	100.52	113.50	Shut-In(2)
120	1069.39	114.22	End Shut-In(2)
121	2146.40	114.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m w/oil spots	0.74

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

Job Ticket: 69180

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.10.02 @ 22:37:00

### 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	w cm 20w 80m w/oil spots	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

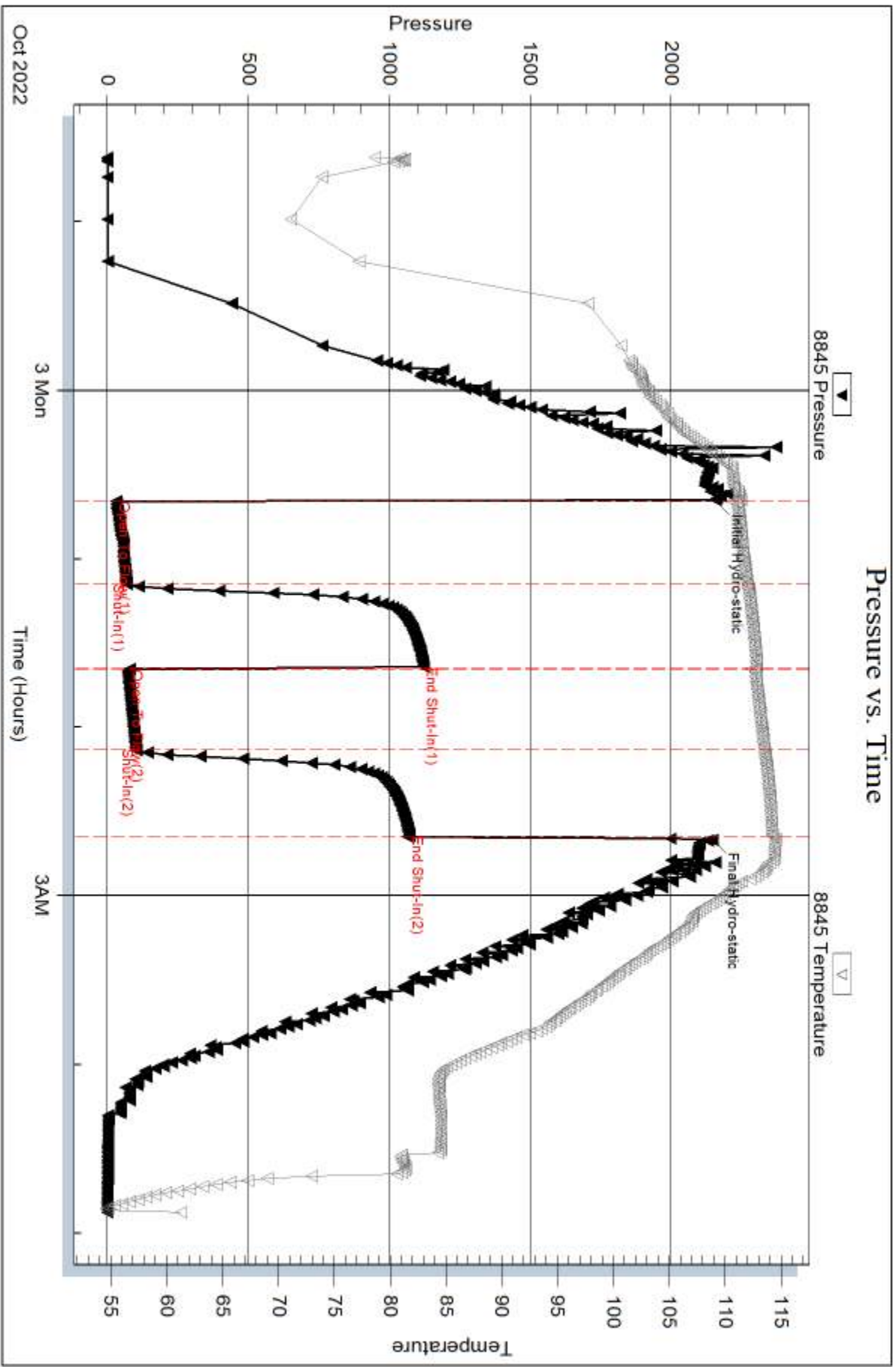
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





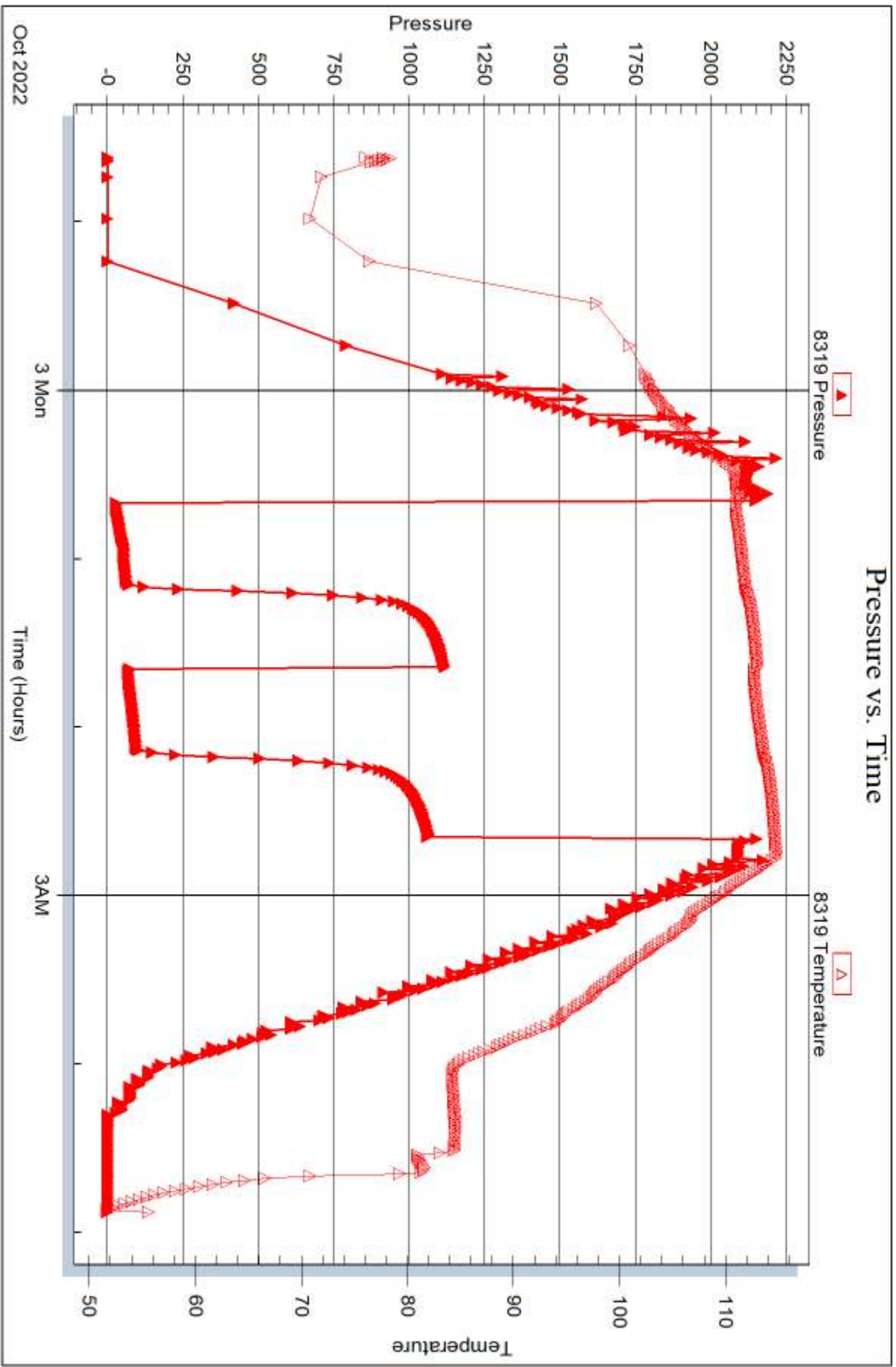
Serial #: 8319

Inside

Palomino Petroleum

TTTA A-changin' #1

DST Test Number: 2

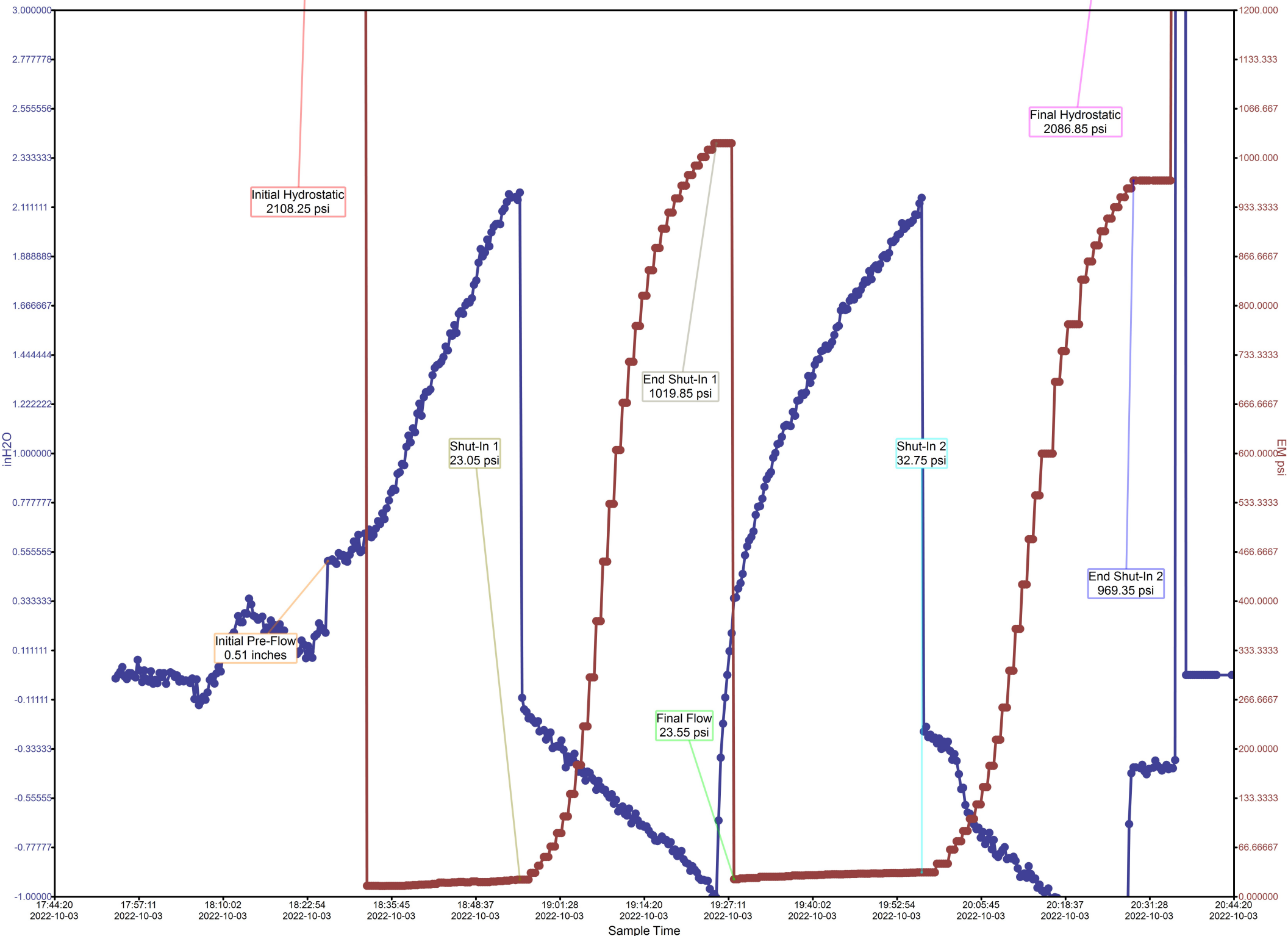


Triobite Testing, Inc

Ref. No: 69180

Printed: 2022.10.03 @ 07:16:35

# Palomino Petroleum - The Times They Are A changin 1 - DST #3



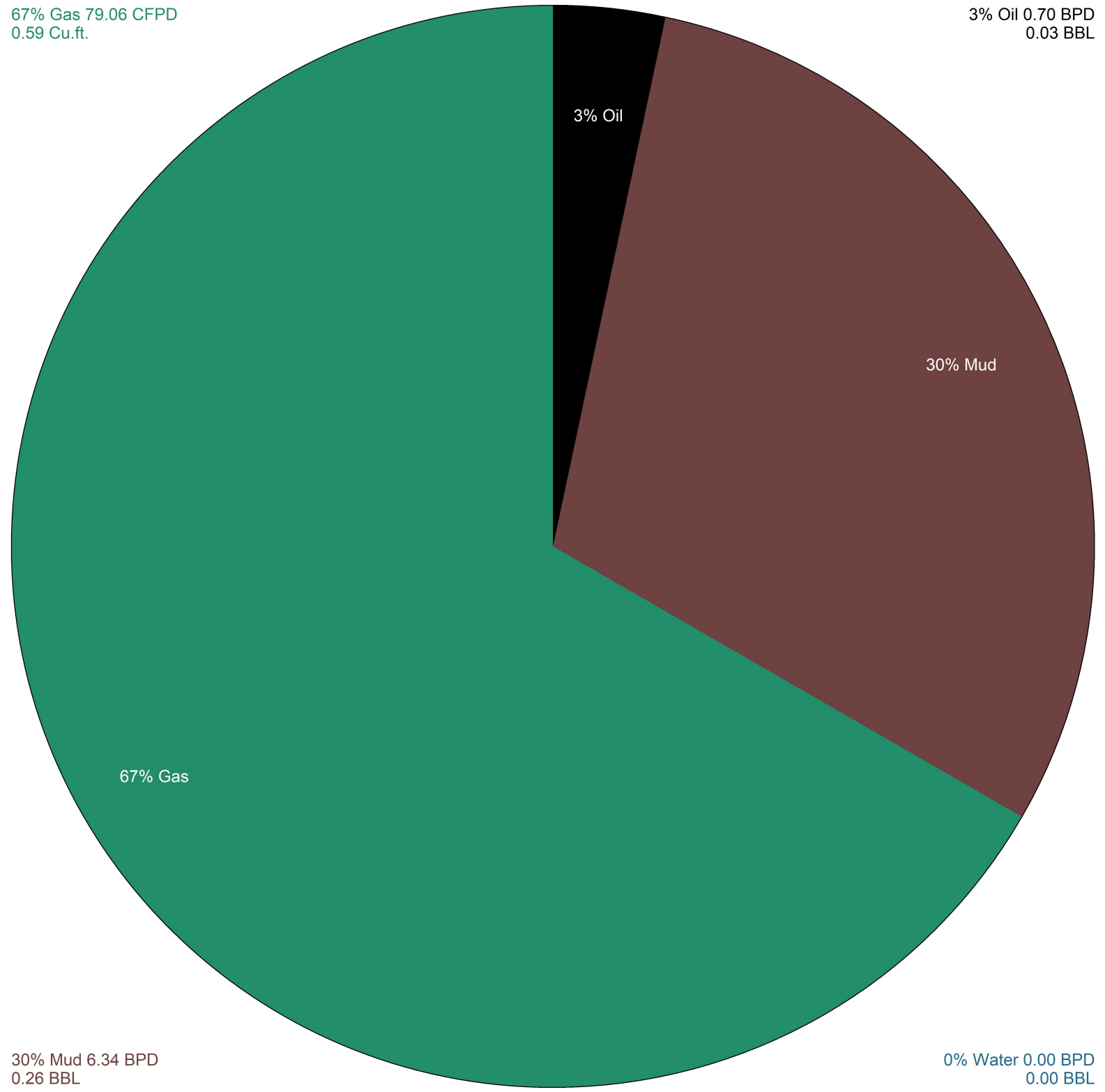
Calculated Recovery Analysis - Palomino Petroleum - The Times They Are A changin 1 - DST #3

67% Gas 79.06 CFPD  
0.59 Cu.ft.

3% Oil 0.70 BPD  
0.03 BBL

30% Mud 6.34 BPD  
0.26 BBL

0% Water 0.00 BPD  
0.00 BBL





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
New ton Ks  
ATTN: Ryan Seib

**26 20s 34w Scott, Ks**  
**TTTA A-changin' #1**  
Job Ticket: 69181 **DST#: 3**  
Test Start: 2022.10.03 @ 15:45:00

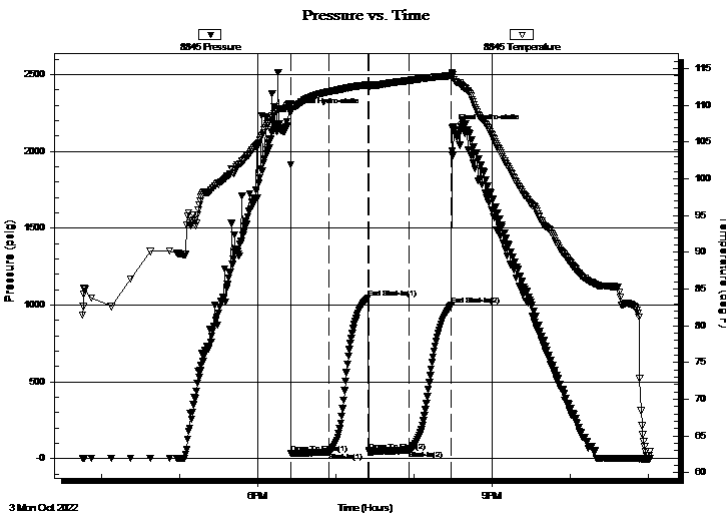
## GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:25:30  
 Time Test Ended: 23:01:45  
 Interval: **4440.00 ft (KB) To 4520.00 ft (KB) (TVD)**  
 Total Depth: 4520.00 ft (KB) (TVD)  
 Hole Diameter: 788.00 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 54.95 psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.10.03 End Date: 2022.10.03 Last Calib.: 2022.10.03  
 Start Time: 15:45:05 End Time: 23:01:44 Time On Btm: 2022.10.03 @ 18:25:00  
 Time Off Btm: 2022.10.03 @ 20:29:15

TEST COMMENT: IF: 2" blow.  
 IS: No return.  
 FF: 2" blow.  
 FS: No return. 30-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.48	110.18	Initial Hydro-static
1	34.34	109.54	Open To Flow (1)
30	45.74	111.85	Shut-In(1)
60	1048.89	112.79	End Shut-In(1)
61	47.15	112.62	Open To Flow (2)
92	54.95	113.40	Shut-In(2)
124	999.65	114.05	End Shut-In(2)
125	2151.18	114.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 10o 90m	0.30
0.00	120' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
New ton Ks  
ATTN: Ryan Seib

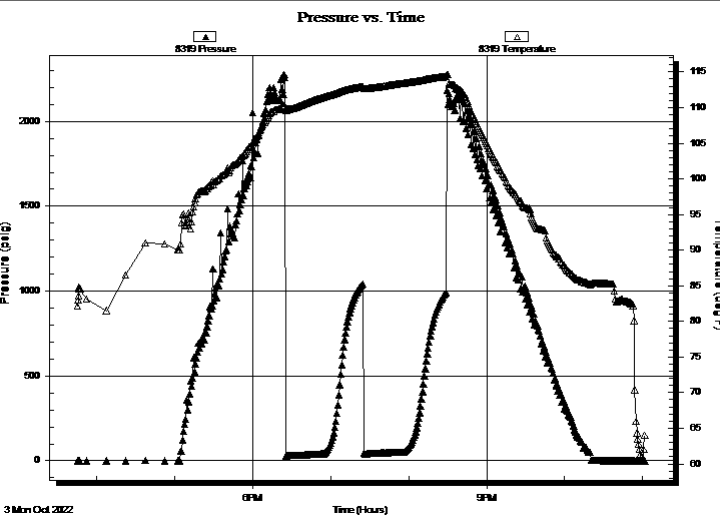
**26 20s 34w Scott, Ks**  
**TTTA A-changin' #1**  
Job Ticket: 69181      **DST#: 3**  
Test Start: 2022.10.03 @ 15:45:00

**GENERAL INFORMATION:**

Formation: **Pawnee- Ft Scott**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 18:25:30  
Time Test Ended: 23:01:45  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Interval: **4440.00 ft (KB) To 4520.00 ft (KB) (TVD)**  
Reference Elevations: 2967.00 ft (KB)  
Total Depth: 4520.00 ft (KB) (TVD)  
Hole Diameter: 788.00 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8319**      **Inside**  
Press@RunDepth:      psig @      4441.00 ft (KB)      Capacity:      8000.00 psig  
Start Date: 2022.10.03      End Date: 2022.10.03      Last Calib.: 2022.10.03  
Start Time: 15:45:05      End Time: 23:01:59      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 2" blow.  
IS: No return.  
FF: 2" blow.  
FS: No return. 30-30-30-30



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	ocm 10o 90m	0.30
0.00	120' GIP	0.00

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

Job Ticket: 69181

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.10.03 @ 15:45:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 10o 90m	0.295
0.00	120' GIP	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

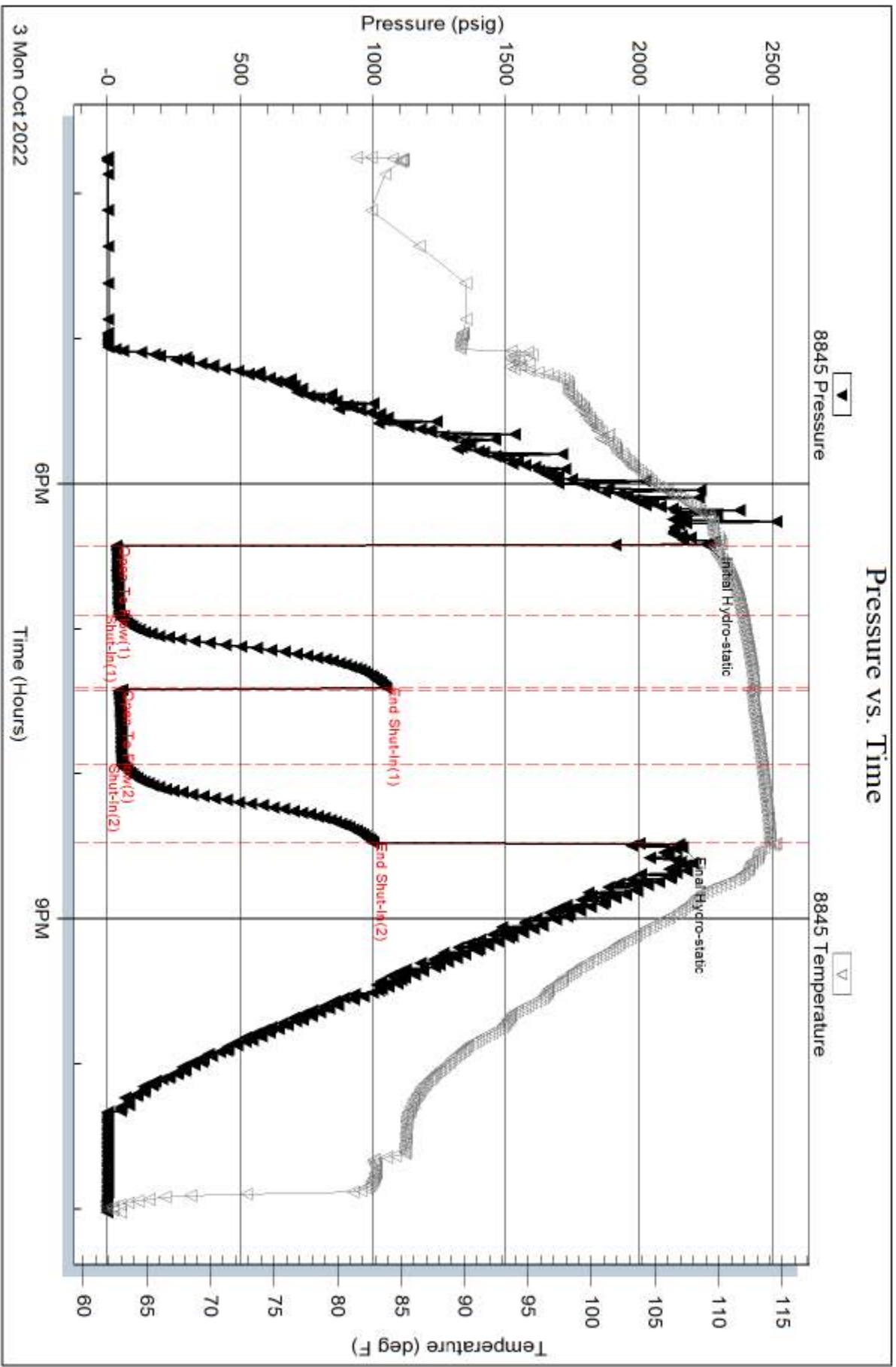
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

TTTA A-changin' #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69181

Printed: 2022.10.04 @ 06:51:02



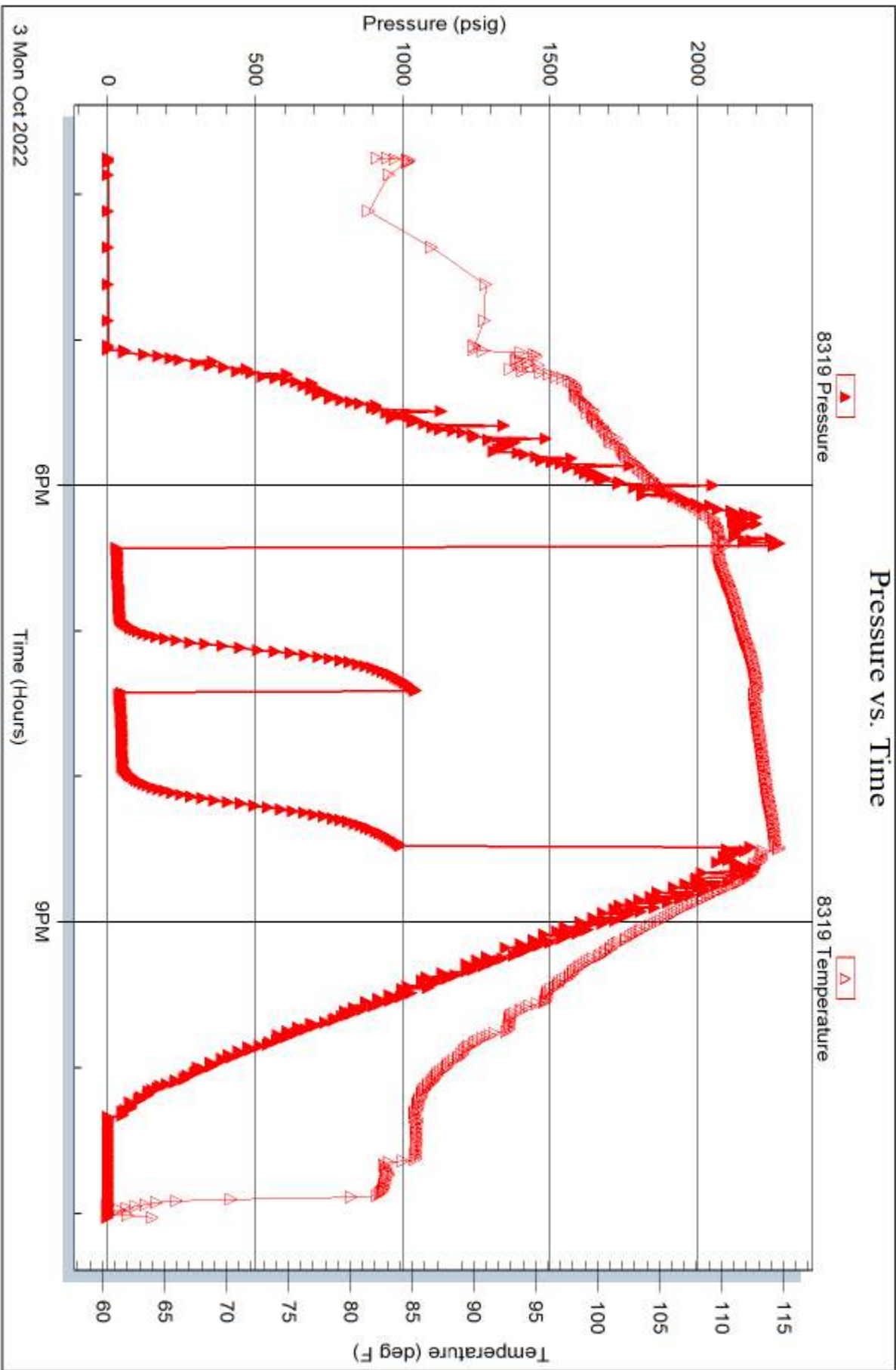
Serial #: 8319

Inside

Palomino Petroleum

TTTA A-changin' #1

DST Test Number: 3





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
New ton Ks  
ATTN: Ryan Seib

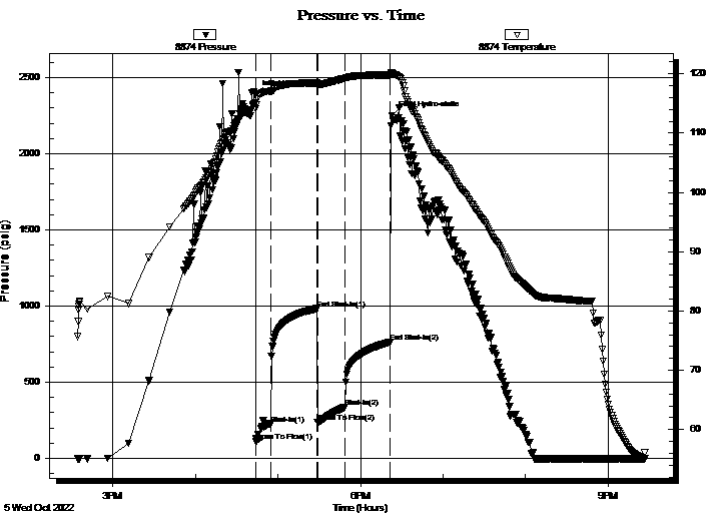
**26 20s 34w Scott, Ks**  
**TTTA A-changin' #1**  
Job Ticket: 69182 **DST#: 4**  
Test Start: 2022.10.05 @ 14:34:09

## GENERAL INFORMATION:

Formation: **Morrow**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 16:44:09  
Time Test Ended: 21:27:09  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Interval: **4665.00 ft (KB) To 4805.00 ft (KB) (TVD)**  
Reference Elevations: 2967.00 ft (KB)  
Total Depth: 4892.00 ft (KB) (TVD)  
2957.00 ft (CF)  
Hole Diameter: 788.00 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**  
Press@RunDepth: 335.47 psig @ 4667.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.10.05 End Date: 2022.10.05 Last Calib.: 2022.10.05  
Start Time: 14:34:14 End Time: 21:27:08 Time On Btm: 2022.10.05 @ 16:43:39  
Time Off Btm: 2022.10.05 @ 18:22:54

TEST COMMENT: IF: BOB @ 3 min- 23 1/2"  
IS: No return.  
FF: BOB @ 5 min. 25 1/2 "  
FS: 1/2" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2386.12	115.14	Initial Hydro-static
1	108.72	114.13	Open To Flow (1)
11	225.39	116.95	Shut-In(1)
45	982.34	118.45	End Shut-In(1)
45	237.78	118.26	Open To Flow (2)
65	335.47	119.23	Shut-In(2)
98	762.48	119.78	End Shut-In(2)
100	2248.59	120.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
690.00	mcw 15m 85w	7.49

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

ATTN: Ryan Seib

Job Ticket: 69182

**DST#: 4**

Test Start: 2022.10.05 @ 14:34:09

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:44:09

Time Test Ended: 21:27:09

**Interval: 4665.00 ft (KB) To 4805.00 ft (KB) (TVD)**

Total Depth: 4892.00 ft (KB) (TVD)

Hole Diameter: 788.00 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Reference Elevations: 2967.00 ft (KB)

2957.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8319 Inside**

Press@RunDepth: psig @ 4667.00 ft (KB)

Start Date: 2022.10.05 End Date: 2022.10.05

Start Time: 14:34:05 End Time: 21:26:44

Capacity: 8000.00 psig

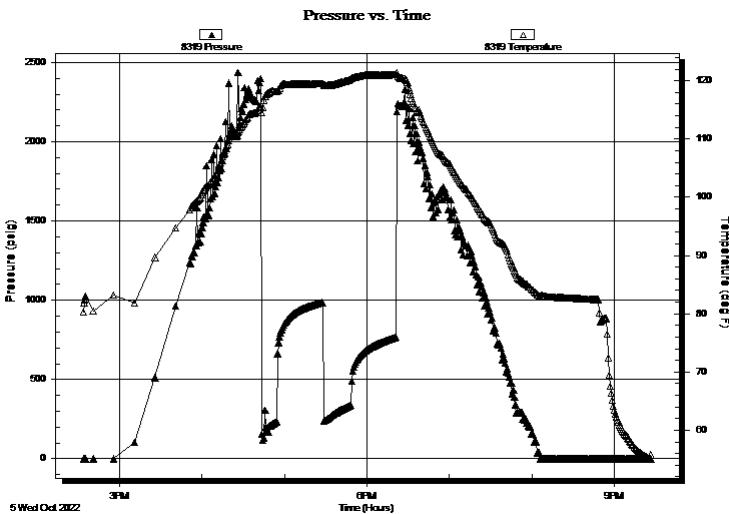
Last Calib.: 2022.10.05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB @ 3 min- 23 1/2"  
IS: No return.  
FF: BOB @ 5 min. 25 1/2 "  
FS: 1/2" return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
690.00	mcw 15m 85w	7.49

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

Job Ticket: 69182

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 14:34:09

## GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:44:09

Time Test Ended: 21:27:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4665.00 ft (KB) To 4805.00 ft (KB) (TVD)**

Reference Elevations: 2967.00 ft (KB)

Total Depth: 4892.00 ft (KB) (TVD)

2957.00 ft (CF)

Hole Diameter: 788.00 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8845**

**Below (Straddle)**

Press@RunDepth: psig @ 4806.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.05

End Date:

2022.10.05

Last Calib.:

2022.10.05

Start Time: 14:34:05

End Time:

21:26:29

Time On Btm:

Time Off Btm:

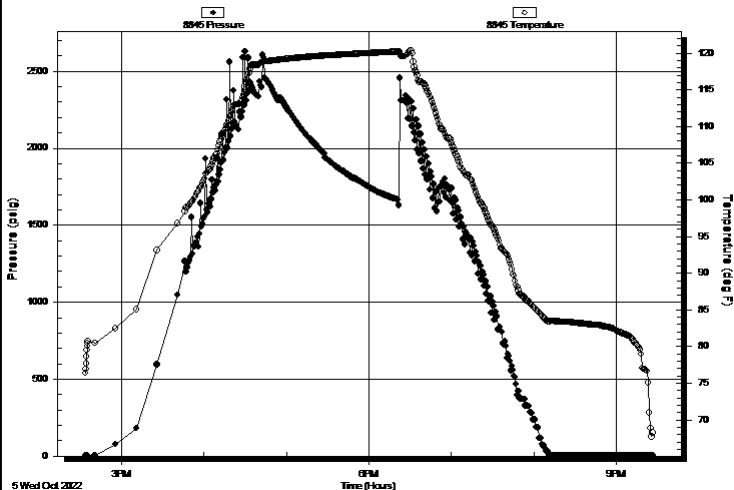
**TEST COMMENT:** IF: BOB @ 3 min- 23 1/2"

IS: No return.

FF: BOB @ 5 min. 25 1/2 "

FS: 1/2" return.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
690.00	mcw 15m 85w	7.49

\* Recovery from multiple tests

Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

Job Ticket: 69182

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 14:34:09

### 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:

64000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
690.00	mcw 15m 85w	7.493

Total Length: 690.00 ft      Total Volume: 7.493 bbl

Num Fluid Samples: 0

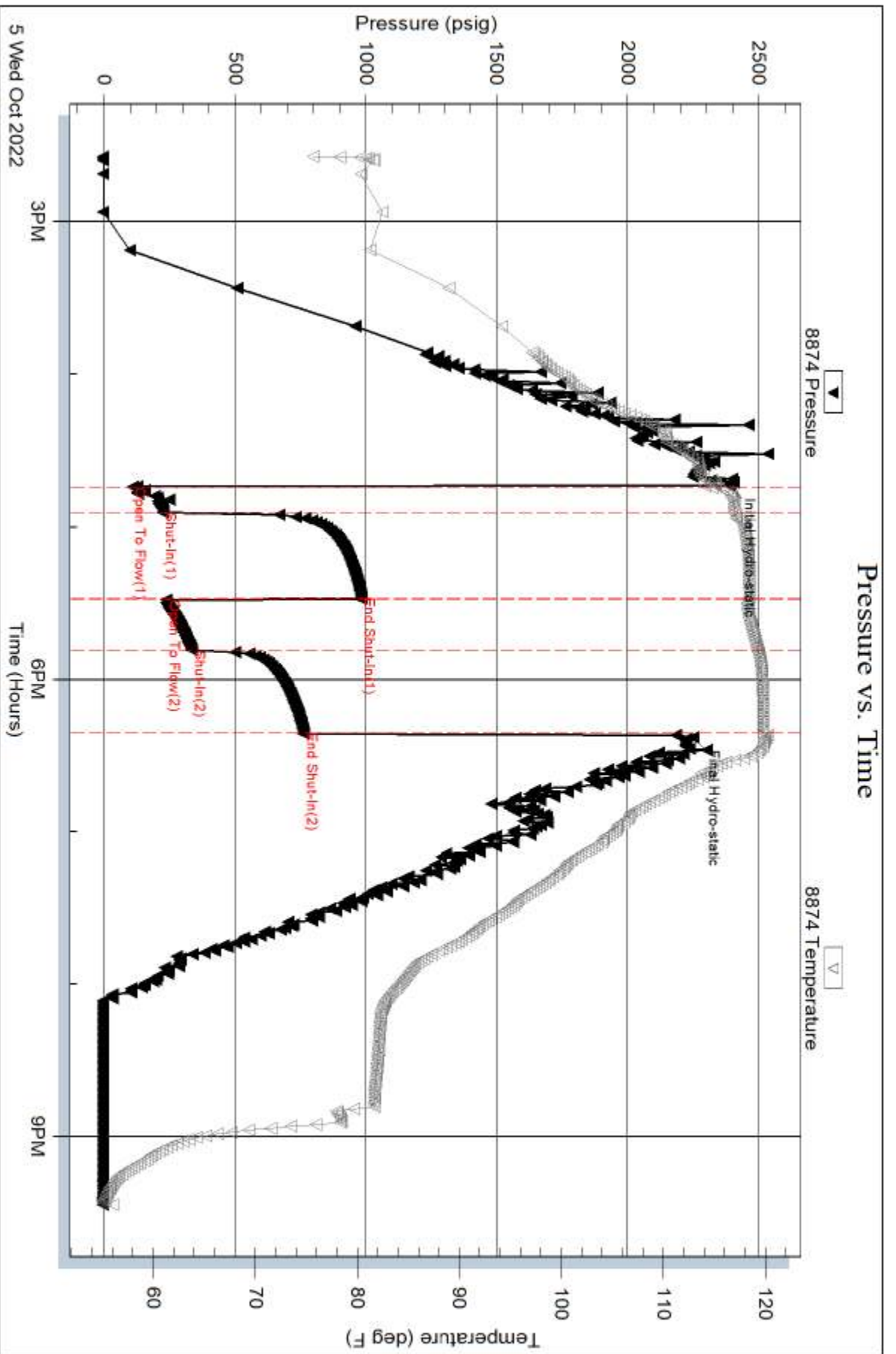
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .143 @ 61F- 64000ppm



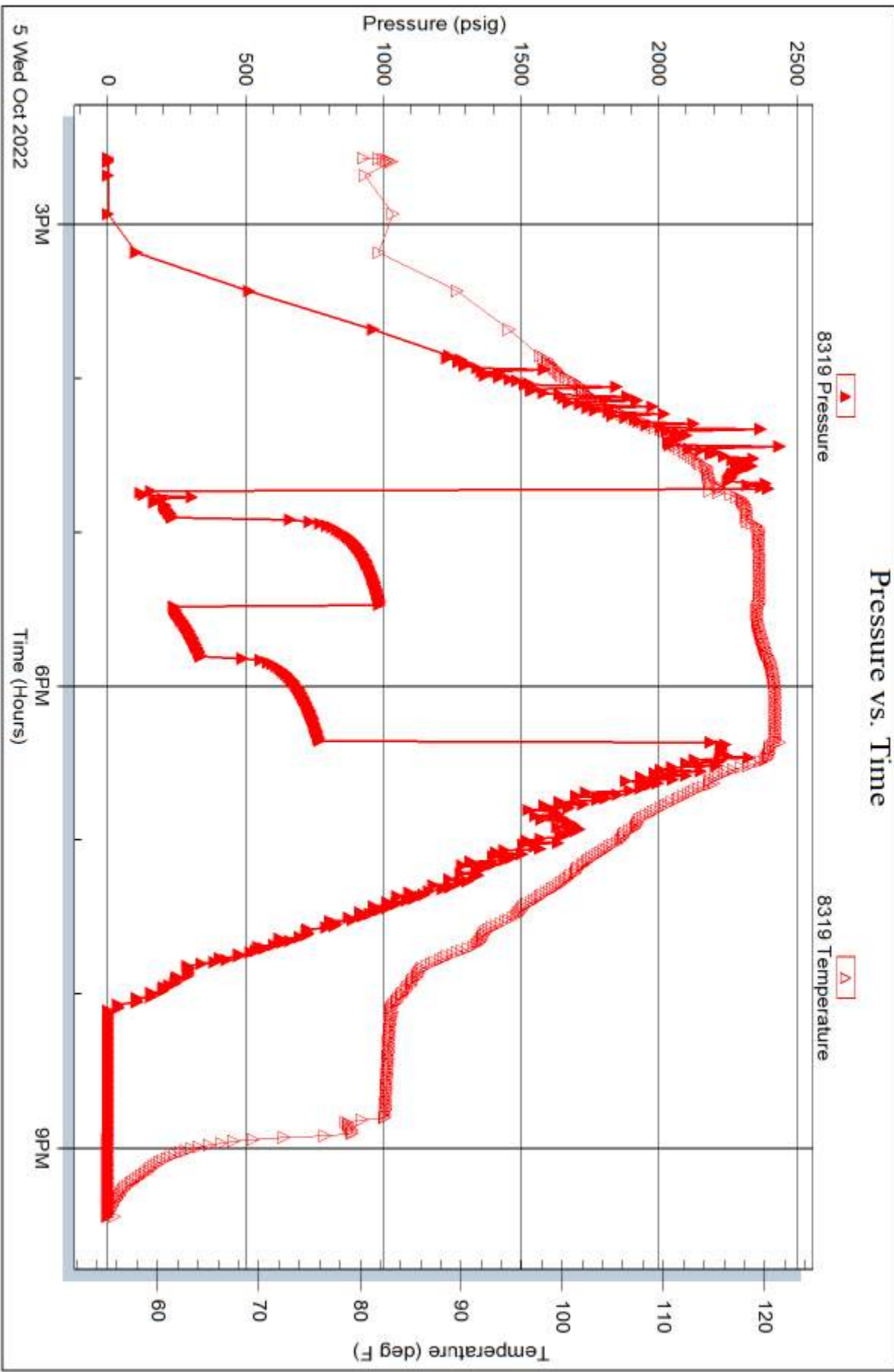
Serial #: 8319

Inside

Palomino Petroleum

TTTA A-changin' #1

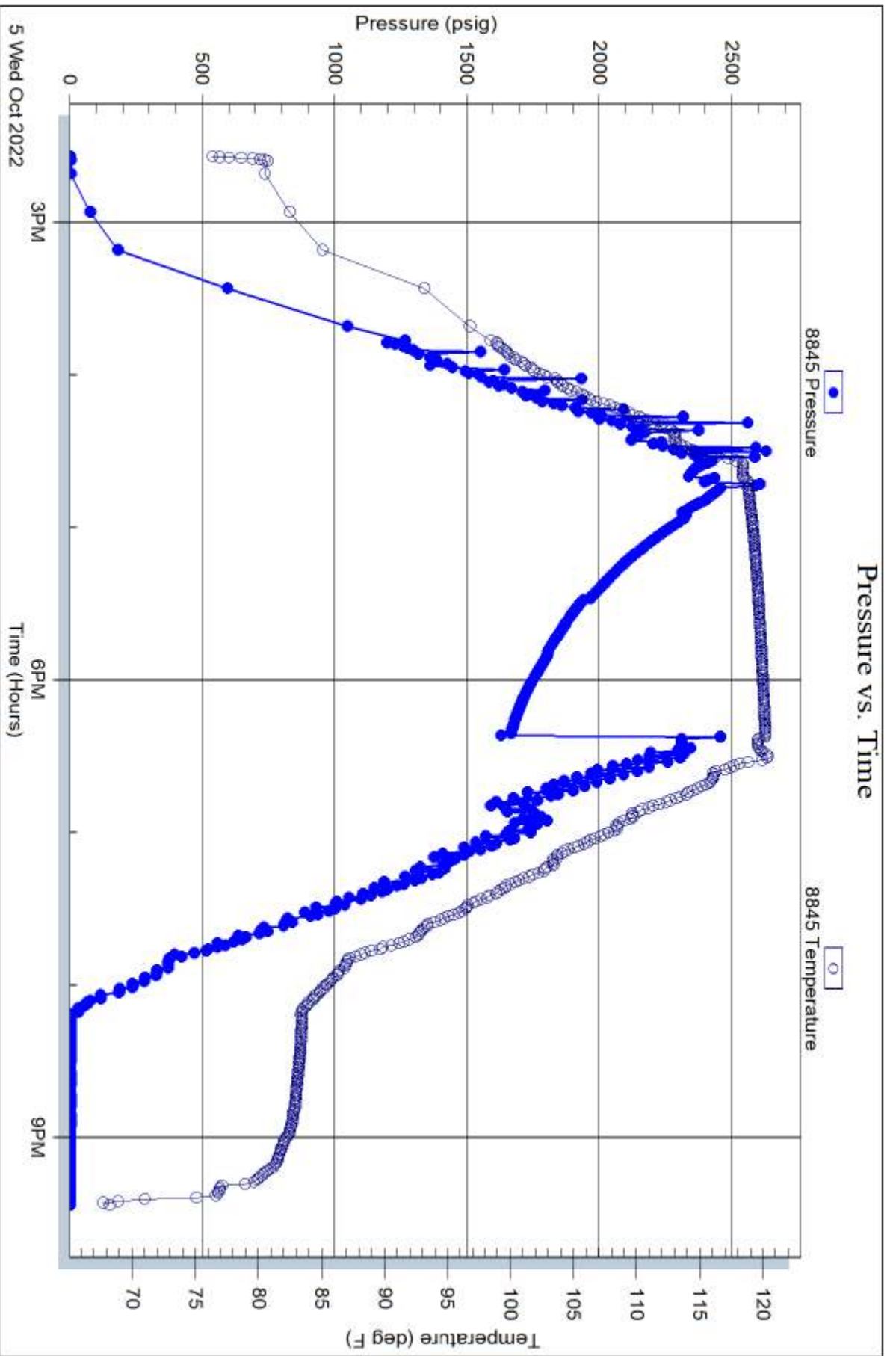
DST Test Number: 4



Trilobite Testing, Inc

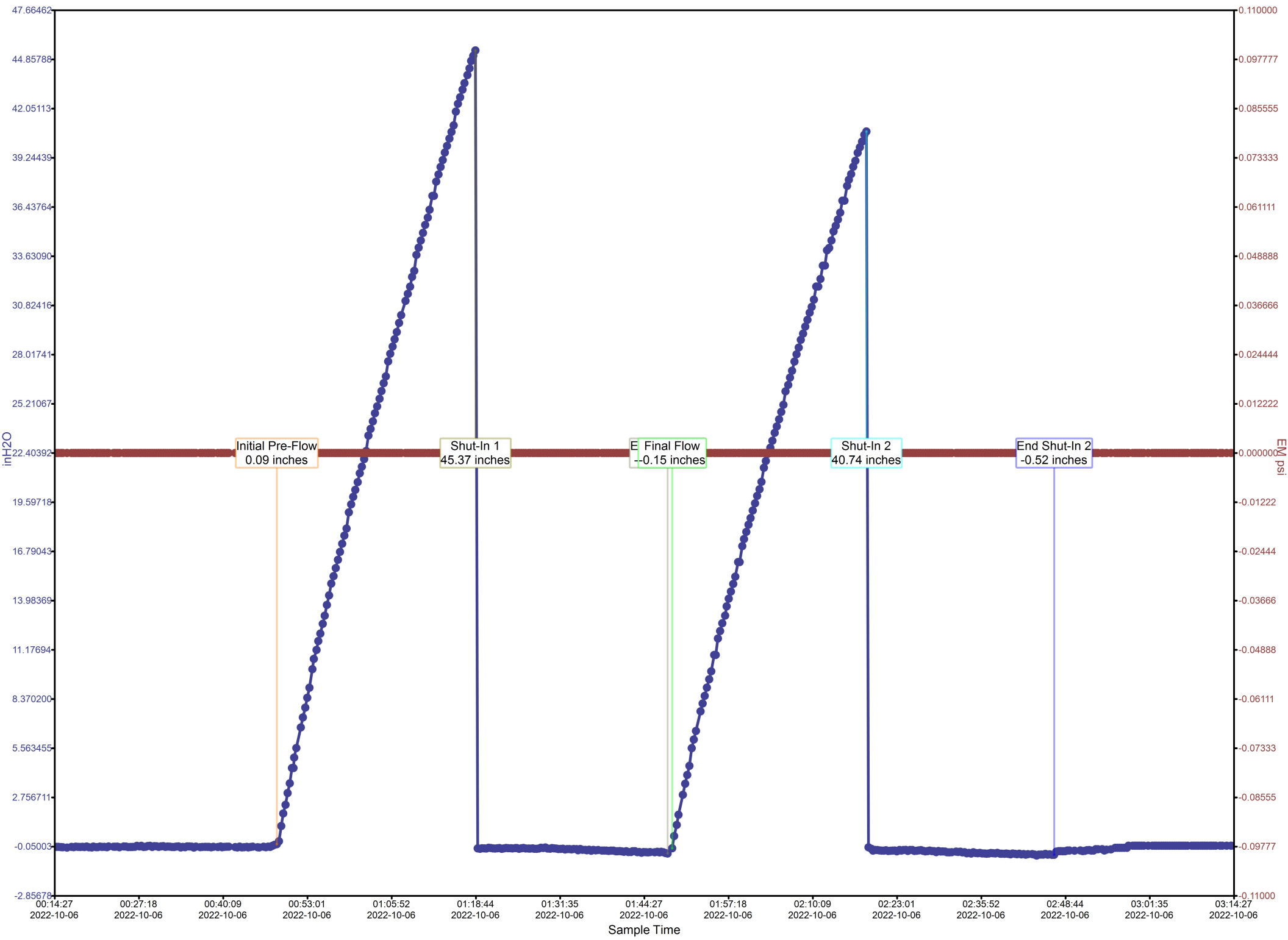
Ref. No: 69182

Printed: 2022.10.06 @ 00:03:47





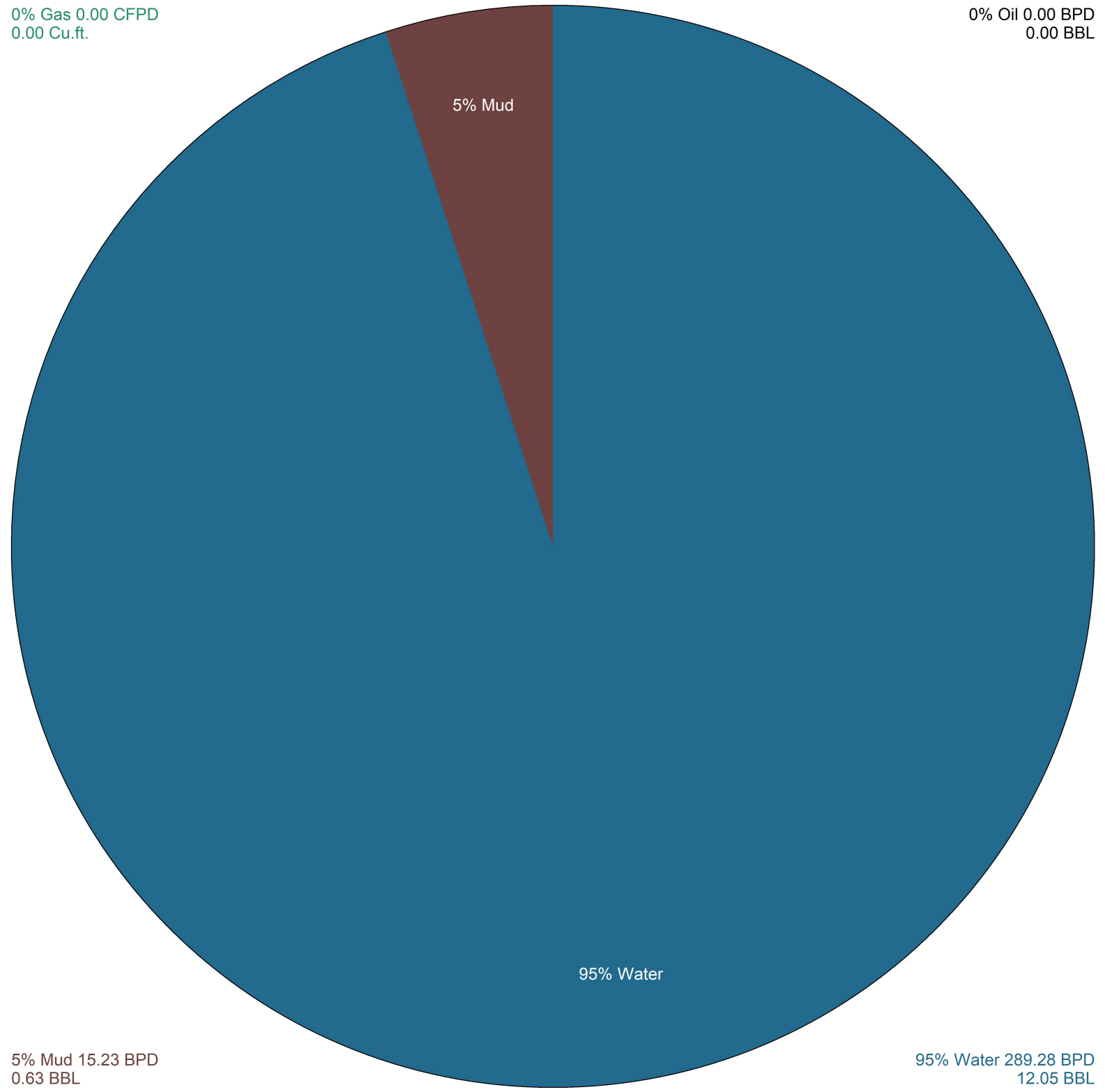
# Palomino Petroleum - The Times They Are A changin 1 - DST #5



Calculated Recovery Analysis - Palomino Petroleum - The Times They Are A changin 1 - DST #5

0% Gas 0.00 CFPD  
0.00 Cu.ft.

0% Oil 0.00 BPD  
0.00 BBL



5% Mud

95% Water

5% Mud 15.23 BPD  
0.63 BBL

95% Water 289.28 BPD  
12.05 BBL



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
New ton Ks  
ATTN: Ryan Seib

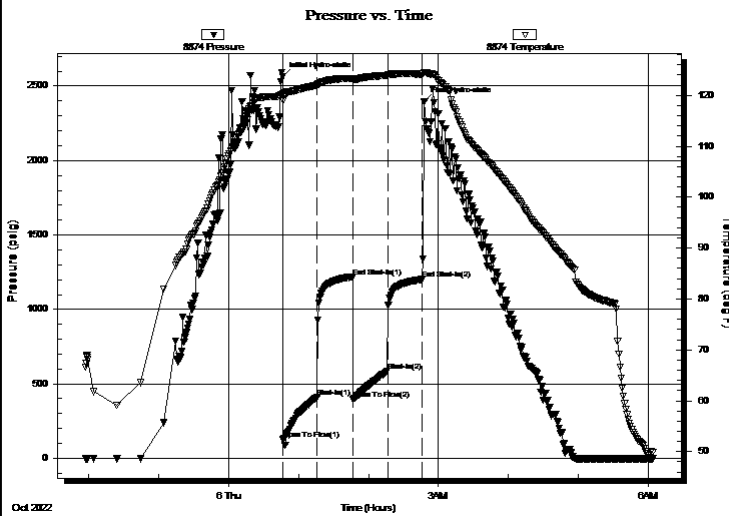
**26 20s 34w Scott, Ks**  
**TTTA A-changin' #1**  
Job Ticket: 69183 **DST#: 5**  
Test Start: 2022.10.05 @ 21:57:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:46:45  
Time Test Ended: 06:04:30  
Interval: **4800.00 ft (KB) To 4844.00 ft (KB) (TVD)**  
Total Depth: 4892.00 ft (KB) (TVD)  
Hole Diameter: 788.00 inches Hole Condition: Good  
Test Type: Conventional Straddle (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 2967.00 ft (KB)  
2957.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8874 Outside**  
Press@RunDepth: 585.68 psig @ 4802.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.10.05 End Date: 2022.10.06 Last Calib.: 2022.10.06  
Start Time: 21:57:05 End Time: 06:04:29 Time On Btm: 2022.10.06 @ 00:46:30  
Time Off Btm: 2022.10.06 @ 02:48:00

TEST COMMENT: IF: BOB @ 5 1/2 min- 45 1/2"  
IS: No return,  
FF: BOB @ 6 1/2 min- 40 3/4"  
FS: No return, 30-30-30-30



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2562.45	120.20	Initial Hydro-static
1	128.33	119.05	Open To Flow (1)
30	411.35	121.98	Shut-In(1)
60	1220.23	123.32	End Shut-In(1)
61	396.84	123.01	Open To Flow (2)
90	585.68	123.94	Shut-In(2)
120	1201.81	124.16	End Shut-In(2)
122	2397.12	124.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1240.00	mcw 5m 95w	12.57

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**26 20s 34w Scott, Ks**

New ton Ks

**TTTA A-changin' #1**

Job Ticket: 69183

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 21:57:00

### 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:

52000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1240.00	mcw 5m 95w	12.566

Total Length: 1240.00 ft      Total Volume: 12.566 bbl

Num Fluid Samples: 0

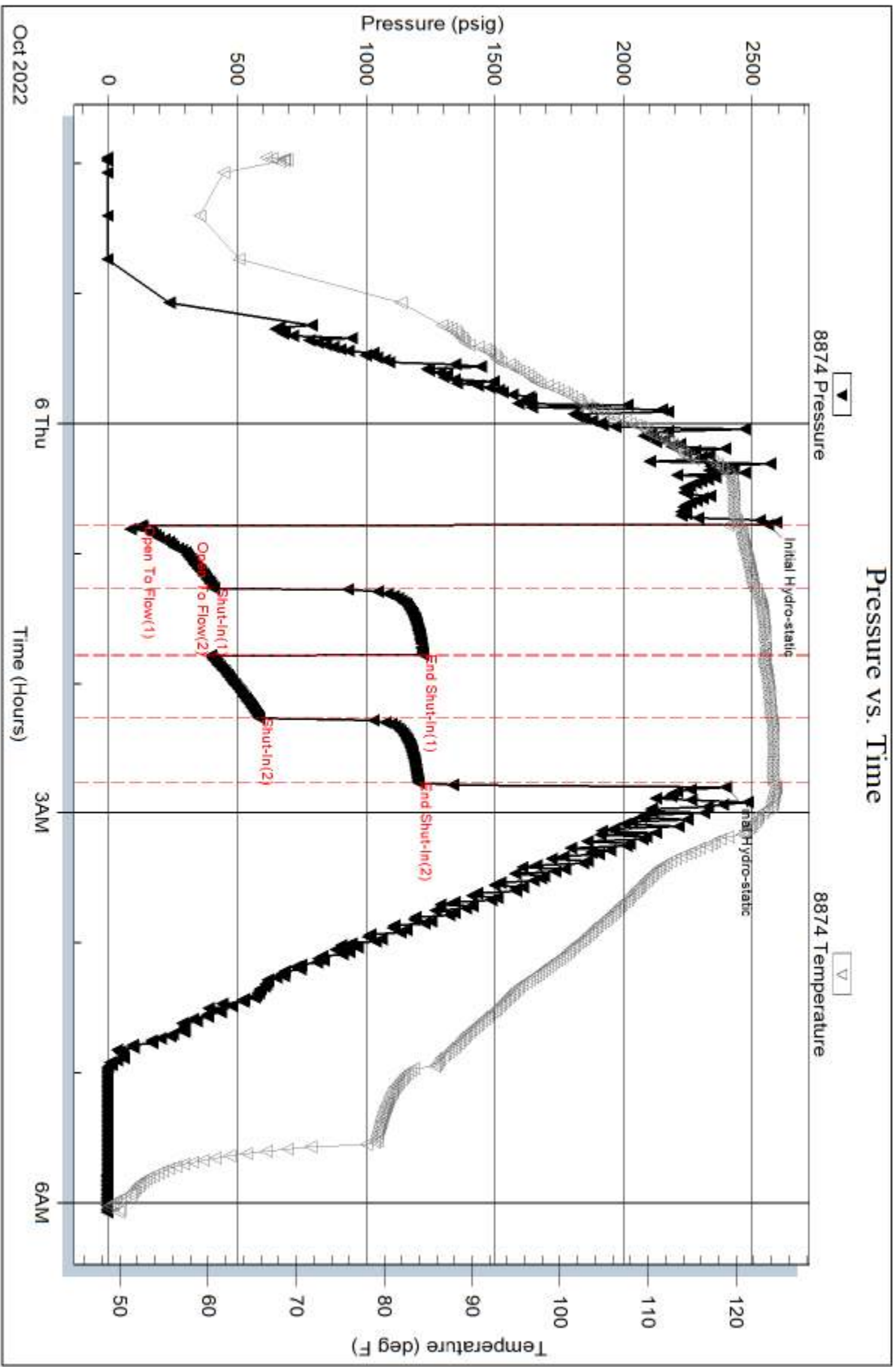
Num Gas Bombs: 0

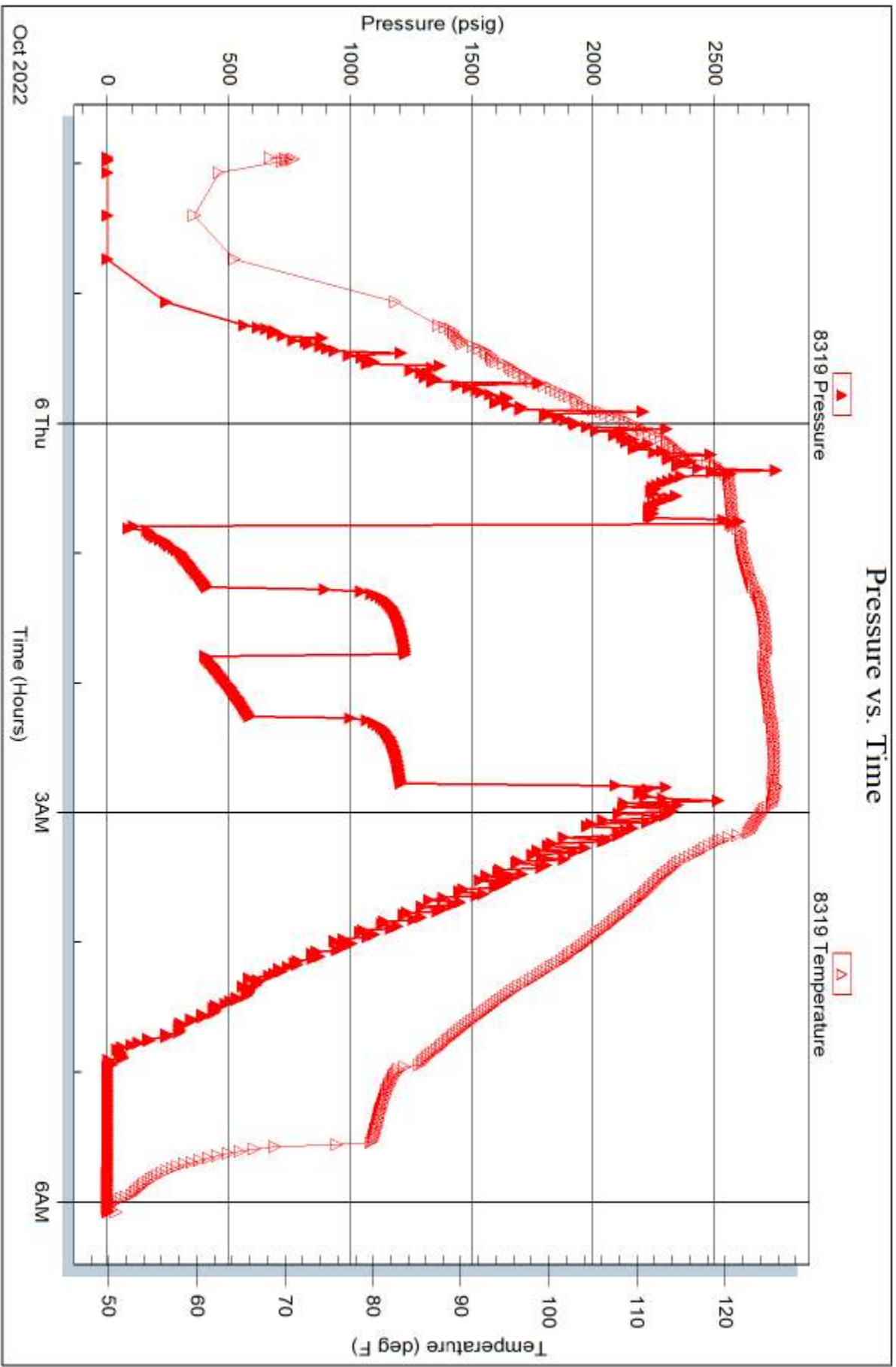
Serial #:

Laboratory Name:

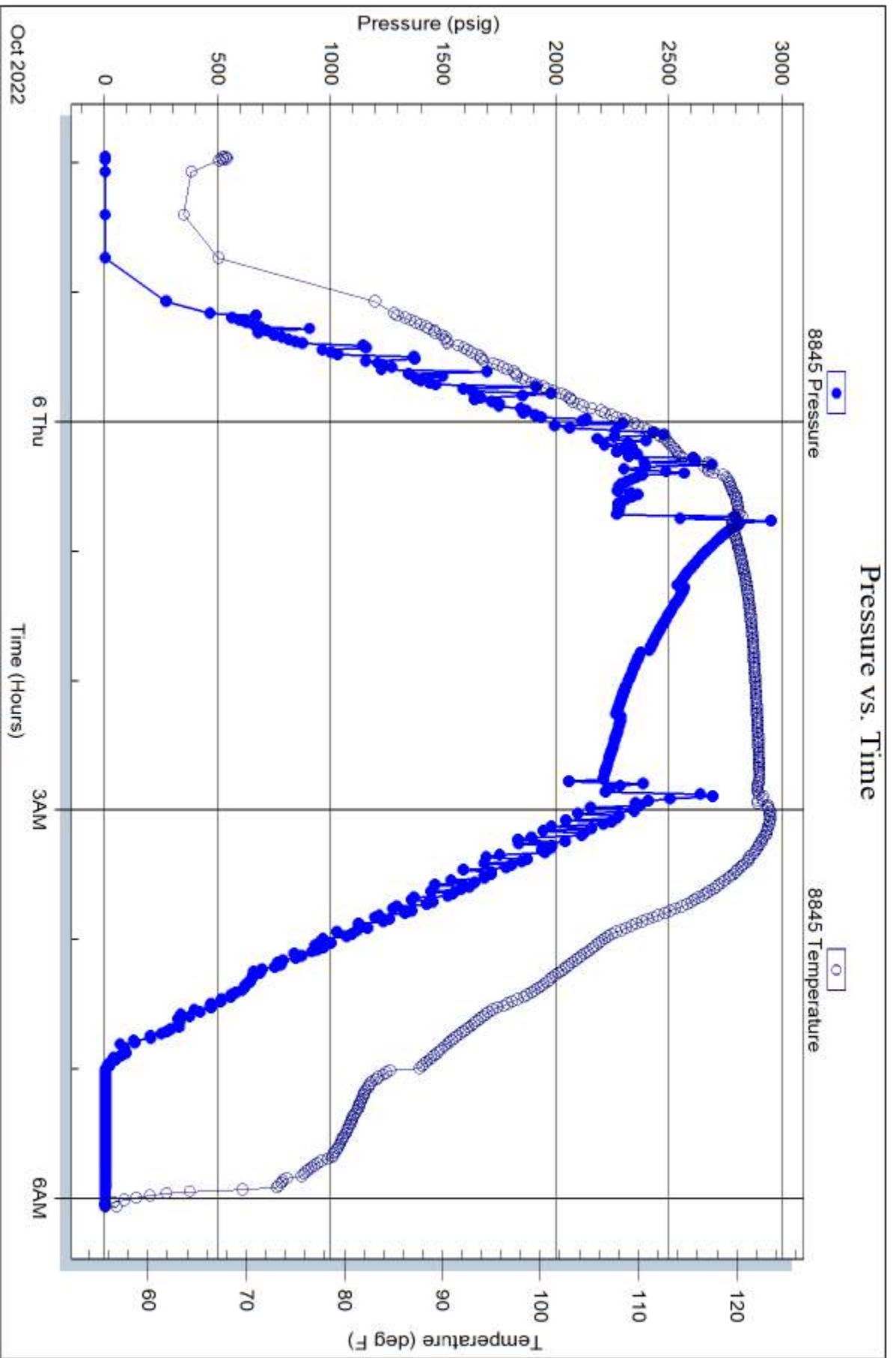
Laboratory Location:

Recovery Comments: rw is .192 @ 51F = 52000ppm











## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

**26-20s-34w Scott,KS**

### **The Times They Are A-Changin' #1**

Start Date: 2022.09.30 @ 01:06:00

End Date: 2022.09.30 @ 07:07:00

Job Ticket #: 69179                      DST #: 1

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

Printed: 2022.10.07 @ 09:36:35



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 New ton KS 67114  
 ATTN: Ryan Seib

**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
 Job Ticket: 69179      **DST#: 1**  
 Test Start: 2022.09.30 @ 01:06:00

## GENERAL INFORMATION:

Formation: ?  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 03:24:45      Tester: Bradley Walter  
 Time Test Ended: 07:07:00      Unit No: 78  
 Interval: **2582.00 ft (KB) To 2782.00 ft (KB) (TVD)**      Reference Elevations: 2967.00 ft (KB)  
 Total Depth: 2782.00 ft (KB) (TVD)      2957.00 ft (CF)  
 Hole Diameter: 788.00 inches      Hole Condition: Good      KB to GR/CF: 10.00 ft

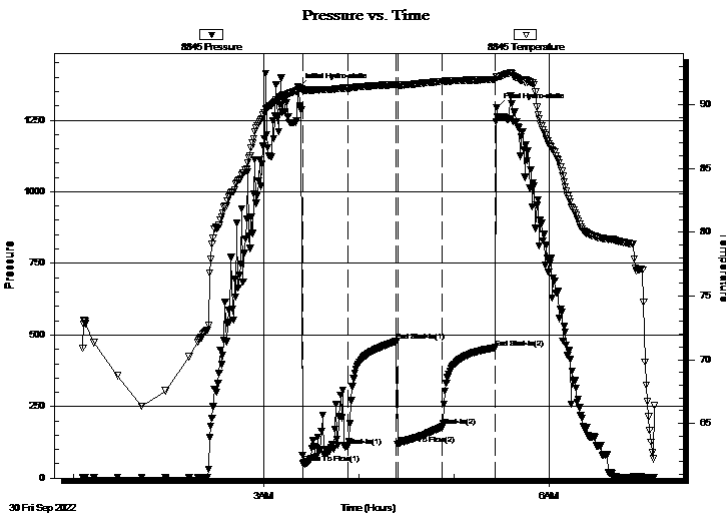
## Serial #: 8845

Outside

Press@RunDepth: 179.55 psig @ 2583.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.09.30      End Date: 2022.09.30      Last Calib.: 2022.09.30  
 Start Time: 01:06:05      End Time: 07:06:59      Time On Btm: 2022.09.30 @ 03:22:15  
 Time Off Btm: 2022.09.30 @ 05:27:00

TEST COMMENT: IF: 10" blow.  
 IS: No return,  
 FF: 7" blow.  
 FS: No return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1364.42	91.25	Initial Hydro-static
3	52.77	91.12	Open To Flow (1)
31	110.50	91.29	Shut-In(1)
62	477.89	91.59	End Shut-In(1)
63	119.47	91.55	Open To Flow (2)
91	179.55	91.82	Shut-In(2)
124	455.38	91.98	End Shut-In(2)
125	1294.61	92.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Mud 100m	1.18
0.00	Gas not detected	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

ATTN: Ryan Seib

Job Ticket: 69179

**DST#: 1**

Test Start: 2022.09.30 @ 01:06:00

## Tool Information

Drill Pipe:	Length: 2341.00 ft	Diameter: 3.80 inches	Volume: 32.84 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 34.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2582.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	200.00 ft			
Tool Length:	230.00 ft			
Number of Packers:	2	Diameter: 875.00 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2553.00	
Shut In Tool	5.00			2558.00	
Hydraulic tool	5.00			2563.00	
Jars	5.00			2568.00	
EM Tool	3.00			2571.00	
Safety Joint	2.00			2573.00	
Packer	5.00			2578.00	30.00 Bottom Of Top Packer
Packer	4.00			2582.00	
Stubb	1.00			2583.00	
Recorder	0.00	8319	Inside	2583.00	
Recorder	0.00	8845	Outside	2583.00	
Perforations	36.00			2619.00	
Change Over Sub	1.00			2620.00	
Drill Pipe	158.00			2778.00	
Change Over Sub	1.00			2779.00	
Bullnose	3.00			2782.00	200.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>230.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott, KS**

Job Ticket: 69179

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.09.30 @ 01:06:00

### 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: 35.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 46000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Mud 100m	1.180
0.00	Gas not detected	0.000

Total Length: 240.00 ft      Total Volume: 1.180 bbl

Num Fluid Samples: 0

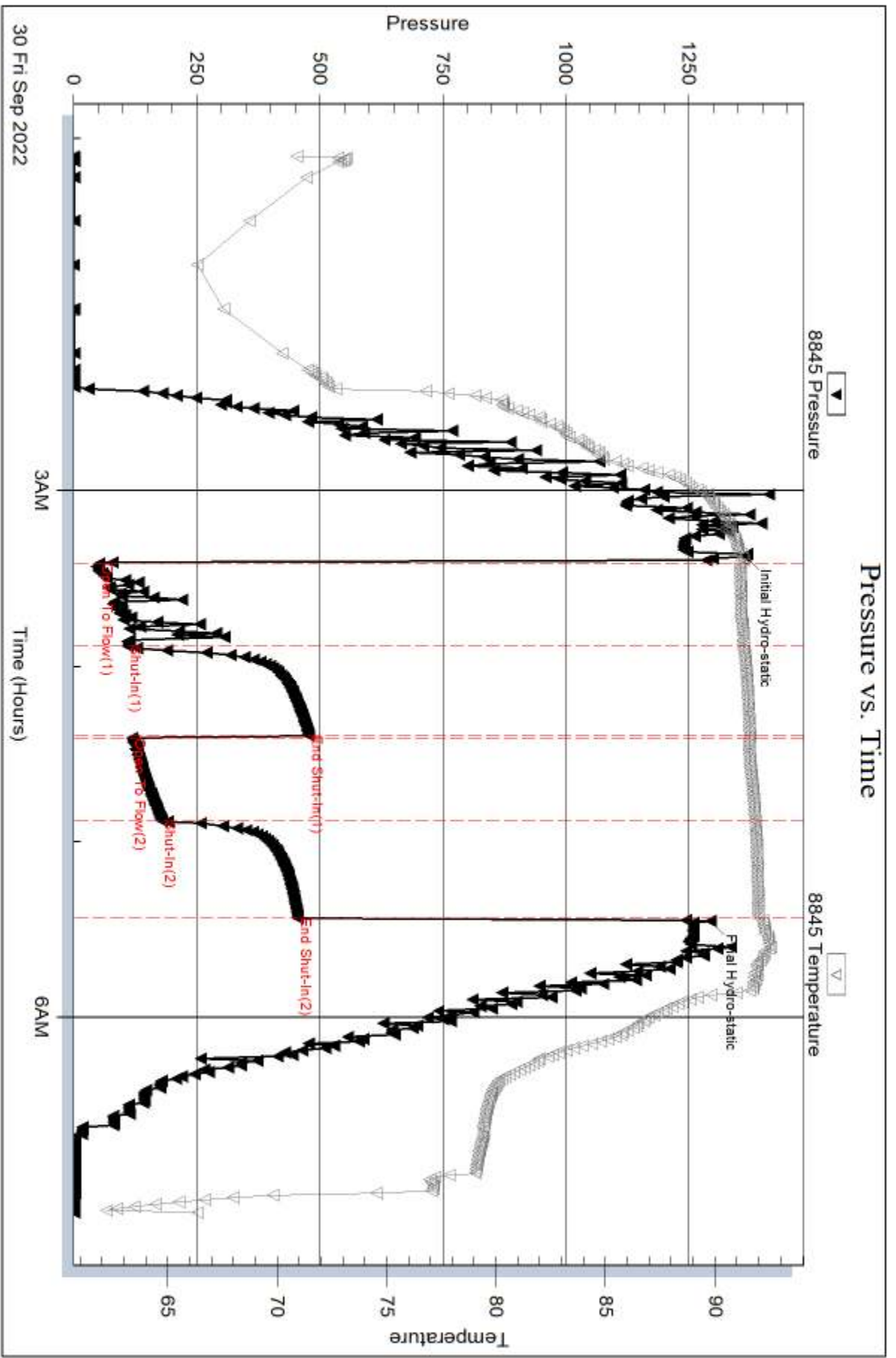
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



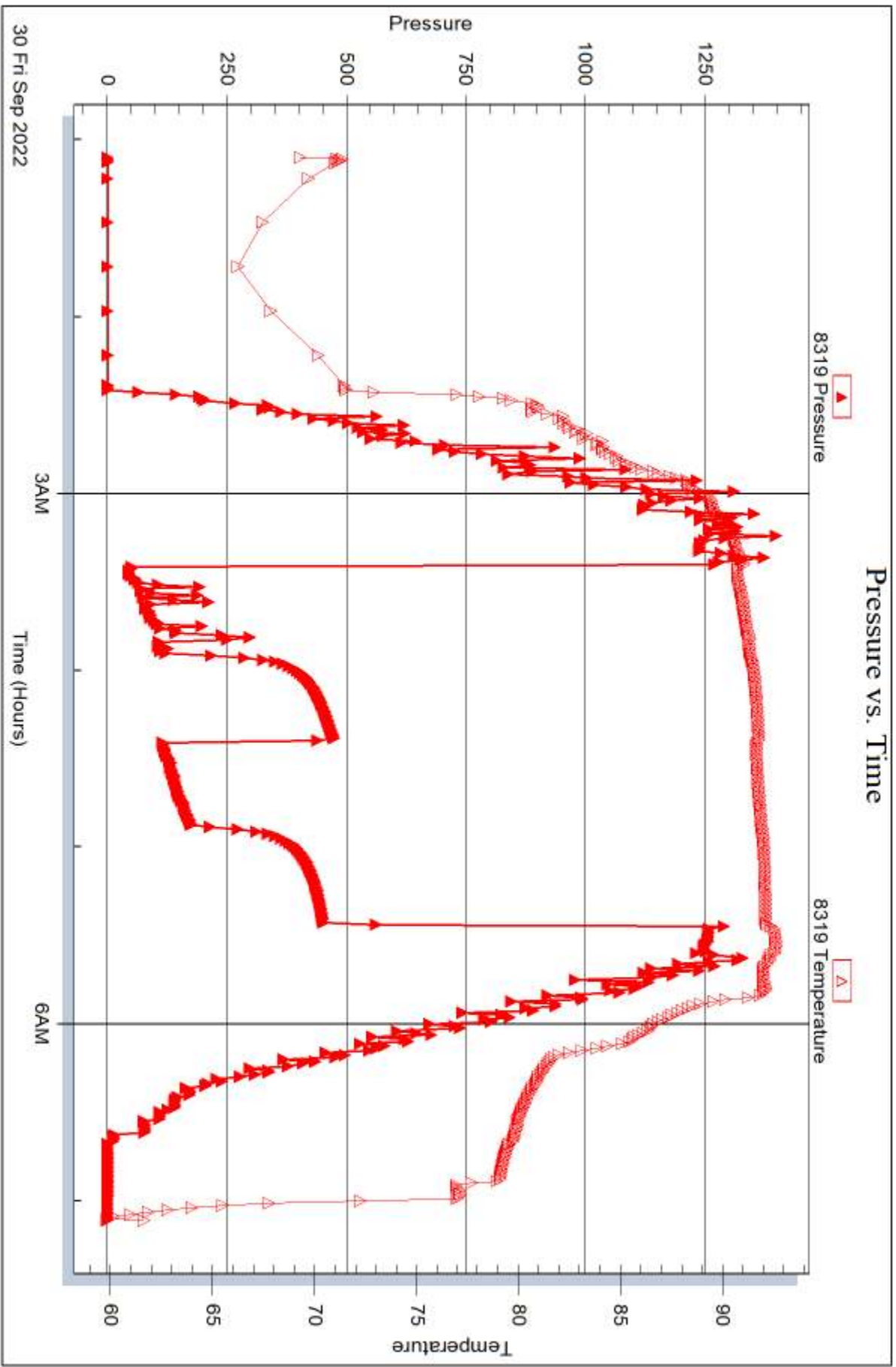
Serial #: 8319

Inside

Palomino Petroleum

26-20s-34w Scott KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69179

Printed: 2022.10.07 @ 09:36:36





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

**26-20s-34w Scott,KS**

### **The Times They Are A-Changin' #1**

Start Date: 2022.10.02 @ 22:37:00

End Date: 2022.10.03 @ 04:53:00

Job Ticket #: 69180                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.10.07 @ 09:36:03



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 Newton KS 67114  
 ATTN: Ryan Seib

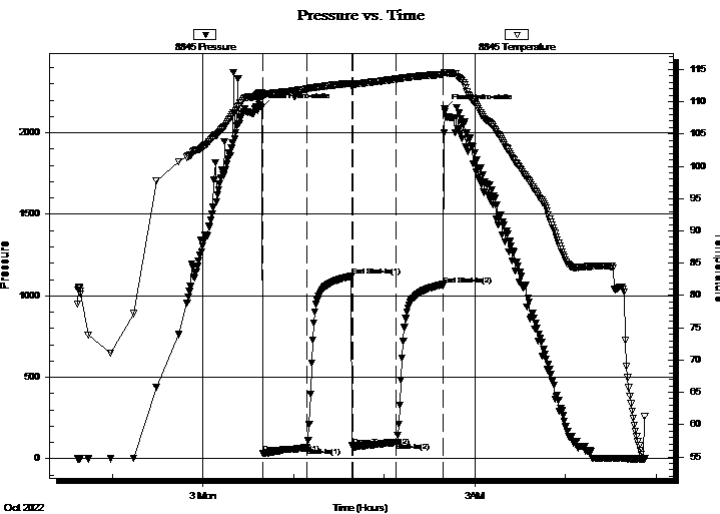
**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
 Job Ticket: 69180 **DST#: 2**  
 Test Start: 2022.10.02 @ 22:37:00

## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:39:30  
 Time Test Ended: 04:53:00  
 Interval: **4340.00 ft (KB) To 4444.00 ft (KB) (TVD)**  
 Total Depth: 4444.00 ft (KB) (TVD)  
 Hole Diameter: 788.00 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**  
 Press@RunDepth: 100.52 psig @ 4341.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.10.02 End Date: 2022.10.03 Last Calib.: 2022.10.03  
 Start Time: 22:37:05 End Time: 04:52:59 Time On Btm: 2022.10.03 @ 00:39:15  
 Time Off Btm: 2022.10.03 @ 02:40:00

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2157.04	111.44	Initial Hydro-static
1	31.72	110.66	Open To Flow (1)
30	67.73	111.98	Shut-In(1)
60	1120.68	112.85	End Shut-In(1)
60	77.66	112.67	Open To Flow (2)
89	100.52	113.50	Shut-In(2)
120	1069.39	114.22	End Shut-In(2)
121	2146.40	114.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	w cm 20w 80m w/oil spots	0.74

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69180

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.10.02 @ 22:37:00

## Tool Information

Drill Pipe:	Length: 4088.00 ft	Diameter: 3.80 inches	Volume: 57.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 58.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4340.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	104.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	2	Diameter: 875.00 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4311.00	
Shut In Tool	5.00			4316.00	
Hydraulic tool	5.00			4321.00	
Jars	5.00			4326.00	
EM Tool	3.00			4329.00	
Safety Joint	2.00			4331.00	
Packer	5.00			4336.00	30.00 Bottom Of Top Packer
Packer	4.00			4340.00	
Stubb	1.00			4341.00	
Recorder	0.00	8319	Inside	4341.00	
Recorder	0.00	8845	Outside	4341.00	
Perforations	35.00			4376.00	
Change Over Sub	1.00			4377.00	
Drill Pipe	63.00			4440.00	
Change Over Sub	1.00			4441.00	
Bullnose	3.00			4444.00	104.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>134.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69180

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.10.02 @ 22:37:00

### 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: 62.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2900.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
150.00	w cm 20w 80m w/oil spots	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbf

Num Fluid Samples: 0

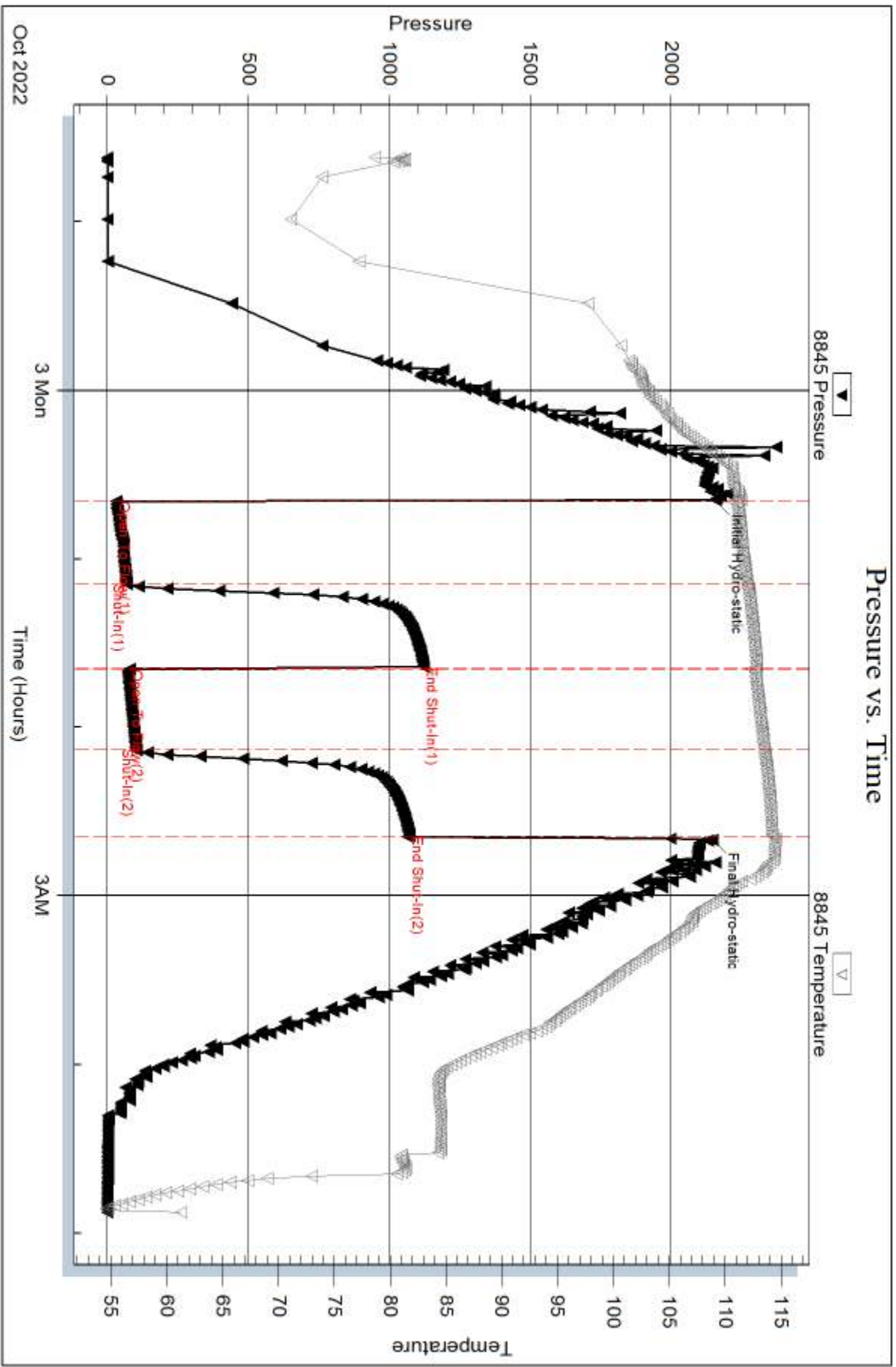
Num Gas Bombs: 0

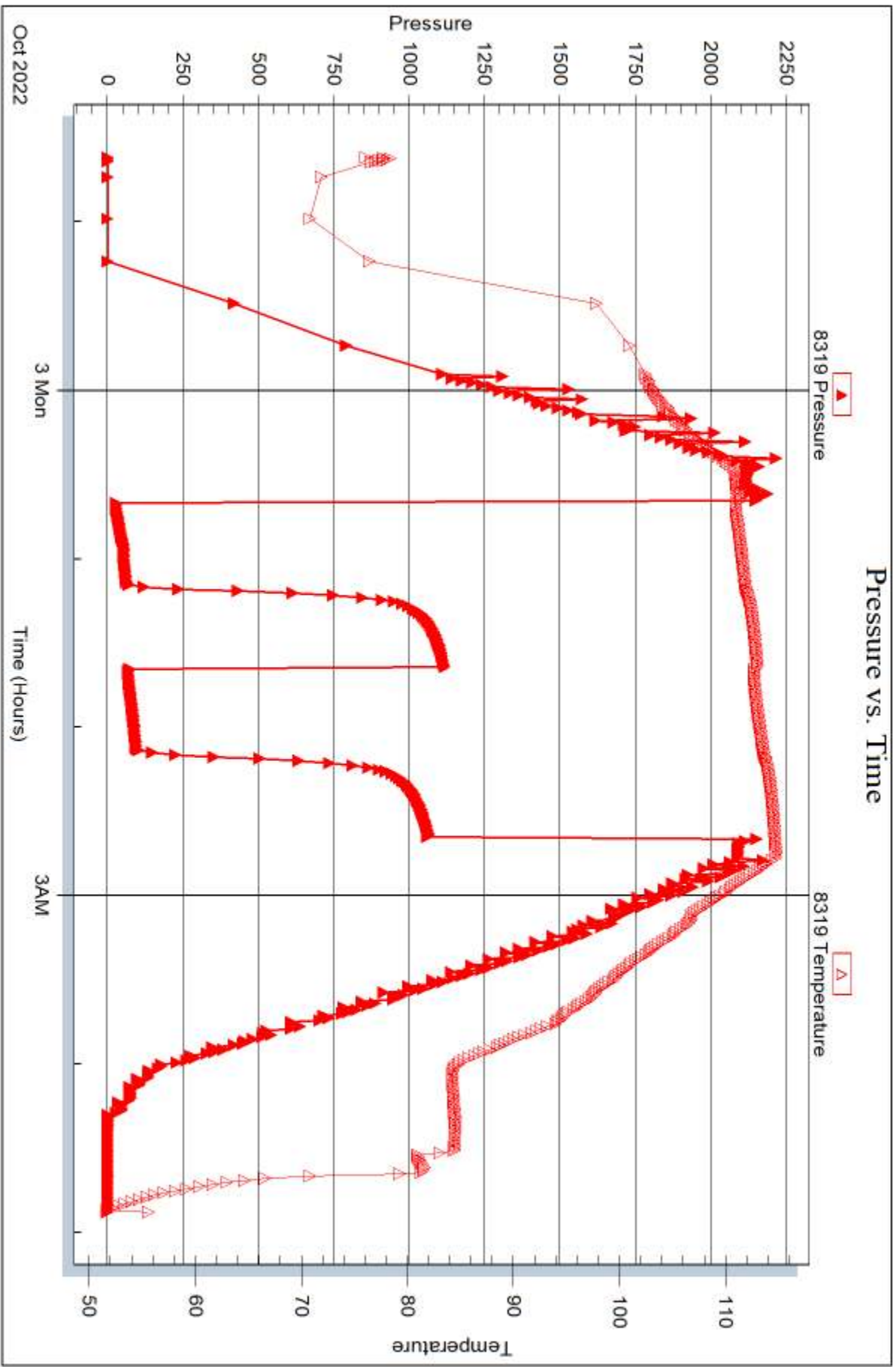
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

**26-20s-34w Scott,KS**

### **The Times They Are A-Changin' #1**

Start Date: 2022.10.03 @ 15:45:00

End Date: 2022.10.03 @ 23:01:45

Job Ticket #: 69181                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.10.07 @ 09:34:55





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 New ton KS 67114  
 ATTN: Ryan Seib

**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
 Job Ticket: 69181 **DST#: 3**  
 Test Start: 2022.10.03 @ 15:45:00

## GENERAL INFORMATION:

Formation: **Pawnee- Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:25:30  
 Time Test Ended: 23:01:45  
 Interval: **4440.00 ft (KB) To 4520.00 ft (KB) (TVD)**  
 Total Depth: 4520.00 ft (KB) (TVD)  
 Hole Diameter: 788.00 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8845

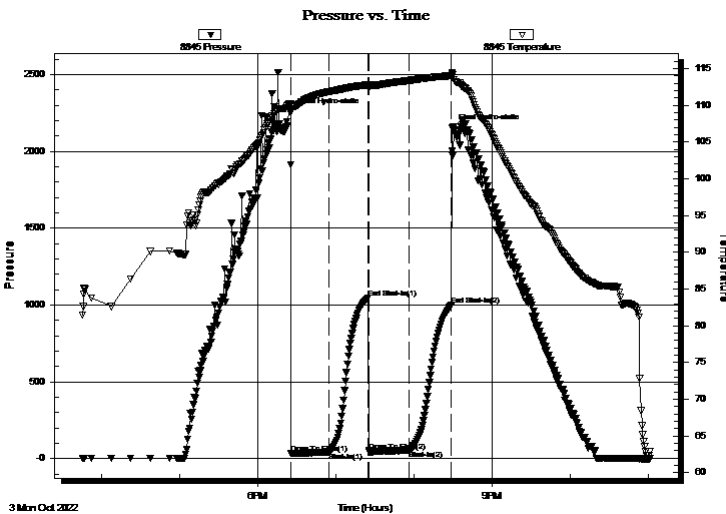
Outside

Press@RunDepth: 54.95 psig @ 4441.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.10.03 End Date: 2022.10.03 Last Calib.: 2022.10.03  
 Start Time: 15:45:05 End Time: 23:01:44 Time On Btm: 2022.10.03 @ 18:25:00  
 Time Off Btm: 2022.10.03 @ 20:29:15

TEST COMMENT: IF: 2" blow.  
 IS: No return.  
 FF: 2" blow.  
 FS: No return. 30-30-30-30

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2251.48	110.18	Initial Hydro-static
1	34.34	109.54	Open To Flow (1)
30	45.74	111.85	Shut-In(1)
60	1048.89	112.79	End Shut-In(1)
61	47.15	112.62	Open To Flow (2)
92	54.95	113.40	Shut-In(2)
124	999.65	114.05	End Shut-In(2)
125	2151.18	114.36	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm 10o 90m	0.30
0.00	120' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69181

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.10.03 @ 15:45:00

## Tool Information

Drill Pipe:	Length: 4182.00 ft	Diameter: 3.80 inches	Volume: 58.66 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 59.84 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4440.00 ft			Final	62000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	80.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter: 875.00 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4411.00	
Shut In Tool	5.00			4416.00	
Hydraulic tool	5.00			4421.00	
Jars	5.00			4426.00	
EM Tool	3.00			4429.00	
Safety Joint	2.00			4431.00	
Packer	5.00			4436.00	30.00 Bottom Of Top Packer
Packer	4.00			4440.00	
Stubb	1.00			4441.00	
Recorder	0.00	8319	Inside	4441.00	
Recorder	0.00	8845	Outside	4441.00	
Perforations	11.00			4452.00	
Change Over Sub	1.00			4453.00	
Drill Pipe	63.00			4516.00	
Change Over Sub	1.00			4517.00	
Bullnose	3.00			4520.00	80.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>110.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69181

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.10.03 @ 15:45:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	ocm 10o 90m	0.295
0.00	120' GIP	0.000

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

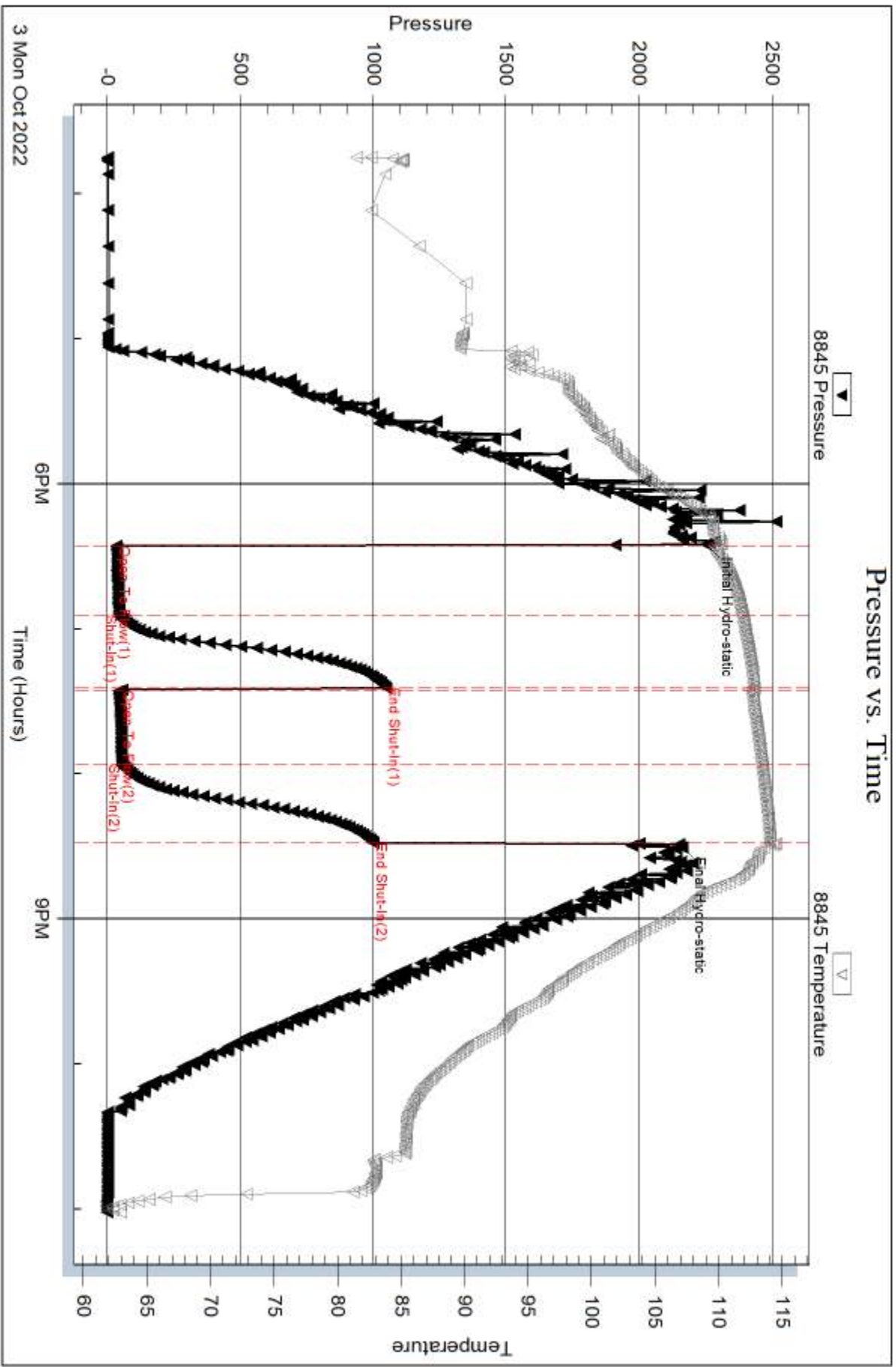
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

26-20s-34w Scott KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69181

Printed: 2022.10.07 @ 09:34:56

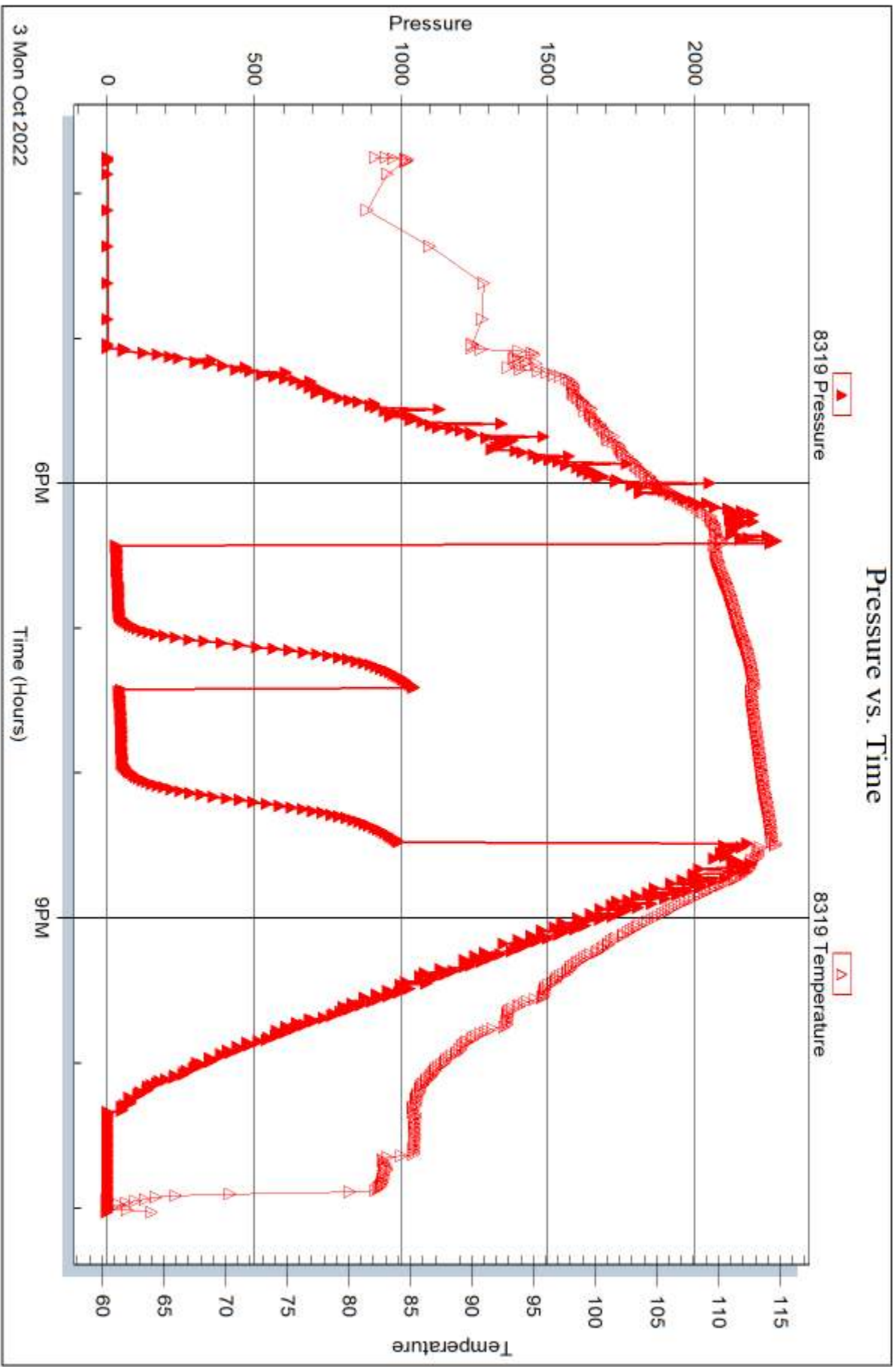
Serial #: 8319

Inside

Palomino Petroleum

26-20s-34w Scott KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 69181

Printed: 2022.10.07 @ 09:34:56



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

**26-20s-34w Scott,KS**

### **The Times They Are A-Changin' #1**

Start Date: 2022.10.05 @ 14:34:09

End Date: 2022.10.05 @ 21:27:09

Job Ticket #: 69182                      DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.10.07 @ 09:34:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St  
 New ton KS 67114  
 ATTN: Ryan Seib

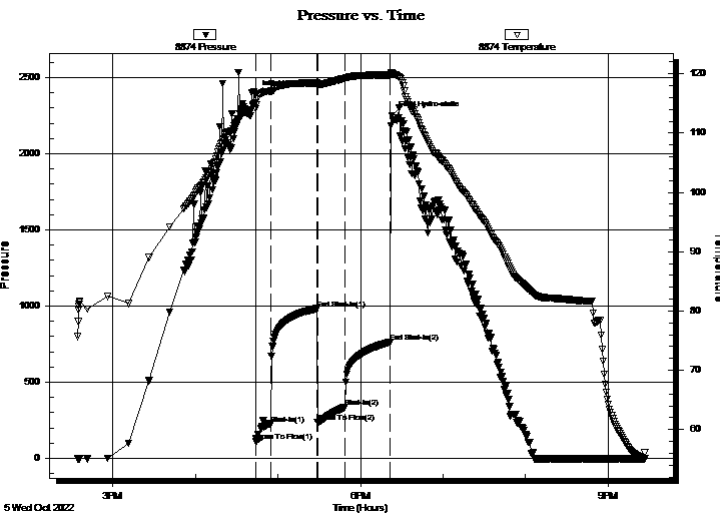
**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
 Job Ticket: 69182      **DST#: 4**  
 Test Start: 2022.10.05 @ 14:34:09

## GENERAL INFORMATION:

Formation: **Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:44:09  
 Time Test Ended: 21:27:09  
 Interval: **4665.00 ft (KB) To 4805.00 ft (KB) (TVD)**  
 Total Depth: 4892.00 ft (KB) (TVD)  
 Hole Diameter: 788.00 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8874      Outside**  
 Press@RunDepth: 335.47 psig @ 4667.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.10.05      End Date: 2022.10.05      Last Calib.: 2022.10.05  
 Start Time: 14:34:14      End Time: 21:27:08      Time On Btm: 2022.10.05 @ 16:43:39  
 Time Off Btm: 2022.10.05 @ 18:22:54

**TEST COMMENT:** IF: BOB @ 3 min- 23 1/2"  
 IS: No return.  
 FF: BOB @ 5 min. 25 1/2 "  
 FS: 1/2" return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2386.12	115.14	Initial Hydro-static
1	108.72	114.13	Open To Flow (1)
11	225.39	116.95	Shut-In(1)
45	982.34	118.45	End Shut-In(1)
45	237.78	118.26	Open To Flow (2)
65	335.47	119.23	Shut-In(2)
98	762.48	119.78	End Shut-In(2)
100	2248.59	120.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
690.00	mcw 15m 85w	7.49

\* Recovery from multiple tests

## Gas Rates

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







# DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St  
New ton KS 67114

ATTN: Ryan Seib

**The Times They Are A-Changin' #1**

**26-20s-34w Scott,KS**

Job Ticket: 69182

**DST#: 4**

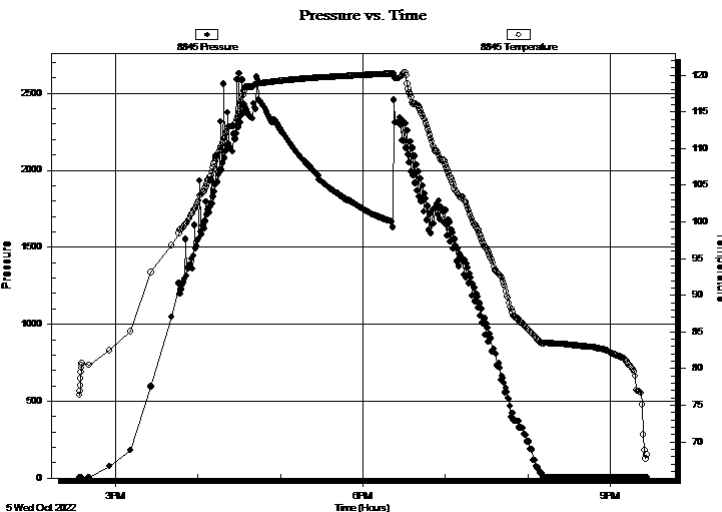
Test Start: 2022.10.05 @ 14:34:09

## GENERAL INFORMATION:

**Formation: Morrow**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:44:09  
 Time Test Ended: 21:27:09  
**Interval: 4665.00 ft (KB) To 4805.00 ft (KB) (TVD)**  
 Total Depth: 4892.00 ft (KB) (TVD)  
 Hole Diameter: 788.00 inchesHole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2967.00 ft (KB)  
 2957.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8845 Below (Straddle)**  
 Press@RunDepth: psig @ 4806.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.10.05 End Date: 2022.10.05 Last Calib.: 2022.10.05  
 Start Time: 14:34:05 End Time: 21:26:29 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: BOB @ 3 min- 23 1/2"  
 IS: No return.  
 FF: BOB @ 5 min. 25 1/2 "  
 FS: 1/2" return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
690.00	mcw 15m 85w	7.49

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St  
New ton KS 67114  
ATTN: Ryan Seib

**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
Job Ticket: 69182      **DST#: 4**  
Test Start: 2022.10.05 @ 14:34:09

**Tool Information**

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 63.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4665.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	4802.00 ft			
Interval between Packers:	137.00 ft			
Tool Length:	257.00 ft			
Number of Packers:	2	Diameter: 875.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4636.00	
Shut In Tool	5.00			4641.00	
Hydraulic tool	5.00			4646.00	
Jars	5.00			4651.00	
EM Tool	3.00			4654.00	
Safety Joint	2.00			4656.00	
Packer	5.00			4661.00	30.00 Bottom Of Top Packer
Packer	4.00			4665.00	
Stubb	1.00			4666.00	
Perforations	1.00			4667.00	
Recorder	0.00	8319	Inside	4667.00	
Recorder	0.00	8874	Outside	4667.00	
Change Over Sub	1.00			4668.00	
Drill Pipe	127.00			4795.00	
Change Over Sub	1.00			4796.00	
Perforations	5.00			4801.00	
Blank Off Sub	1.00			4802.00	137.00 Tool Interval
Packer	3.00			4805.00	
Blank Spacing	1.00			4806.00	
Recorder	0.00	8845	Below	4806.00	
Perforations	18.00			4824.00	
Change Over Sub	1.00			4825.00	
Drill Pipe	63.00			4888.00	
Change Over Sub	1.00			4889.00	
Bullnose	3.00			4892.00	90.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>257.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69182

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 14:34:09

### 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:

64000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
690.00	mcw 15m 85w	7.493

Total Length: 690.00 ft      Total Volume: 7.493 bbl

Num Fluid Samples: 0

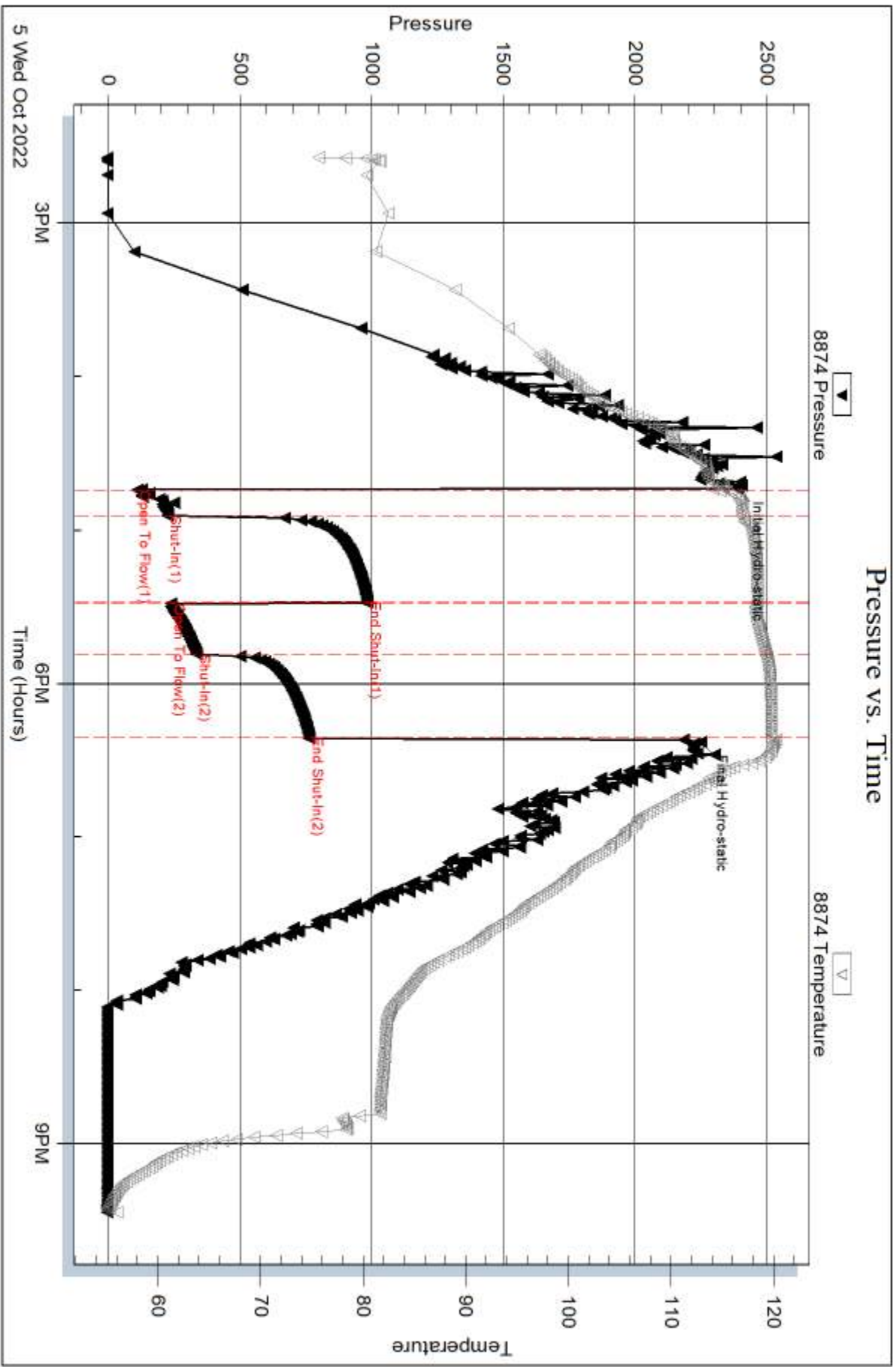
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .143 @ 61F- 64000ppm



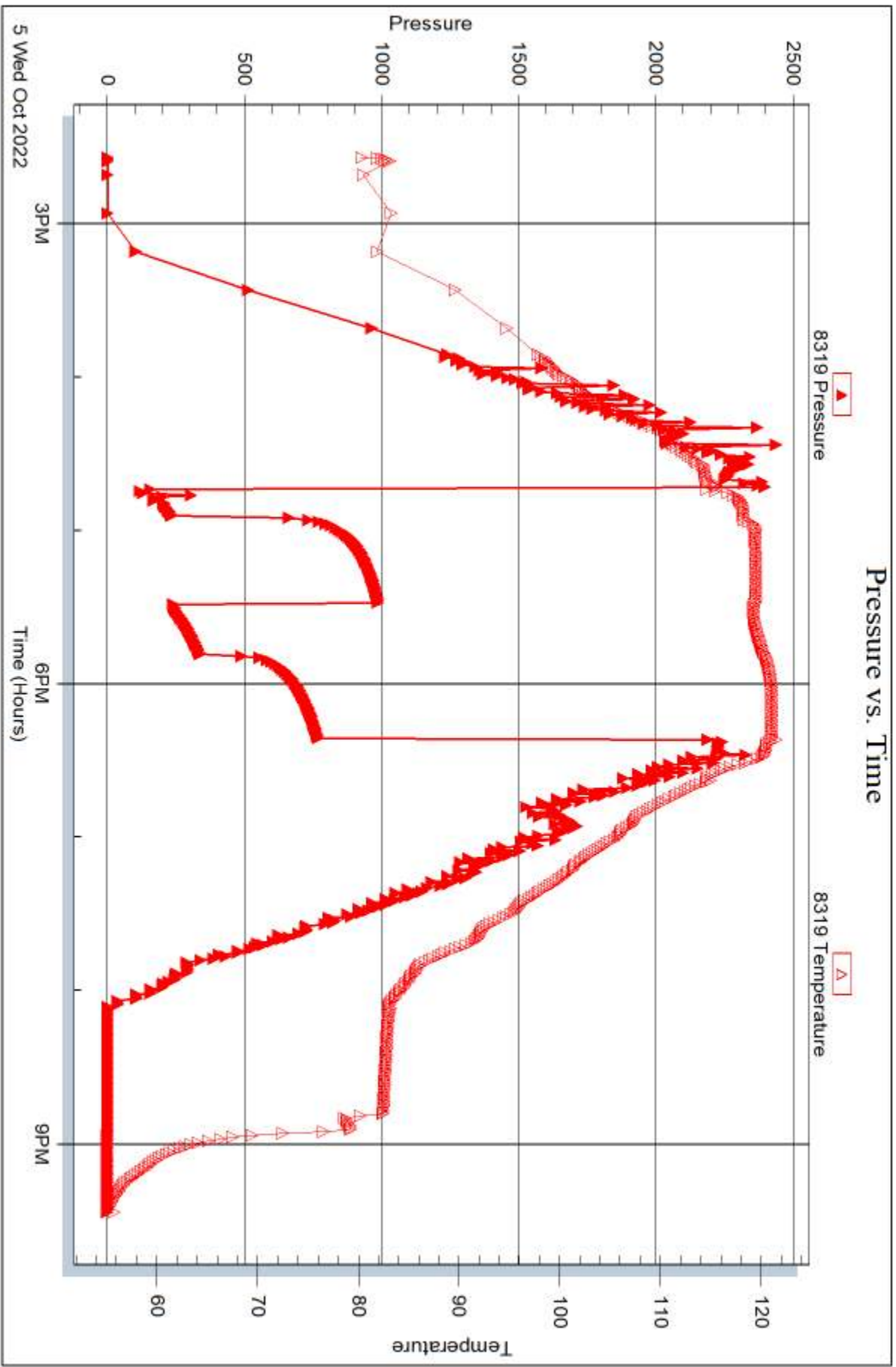
Serial #: 8319

Inside

Palomino Petroleum

26-20s-34w Scott KS

DST Test Number: 4

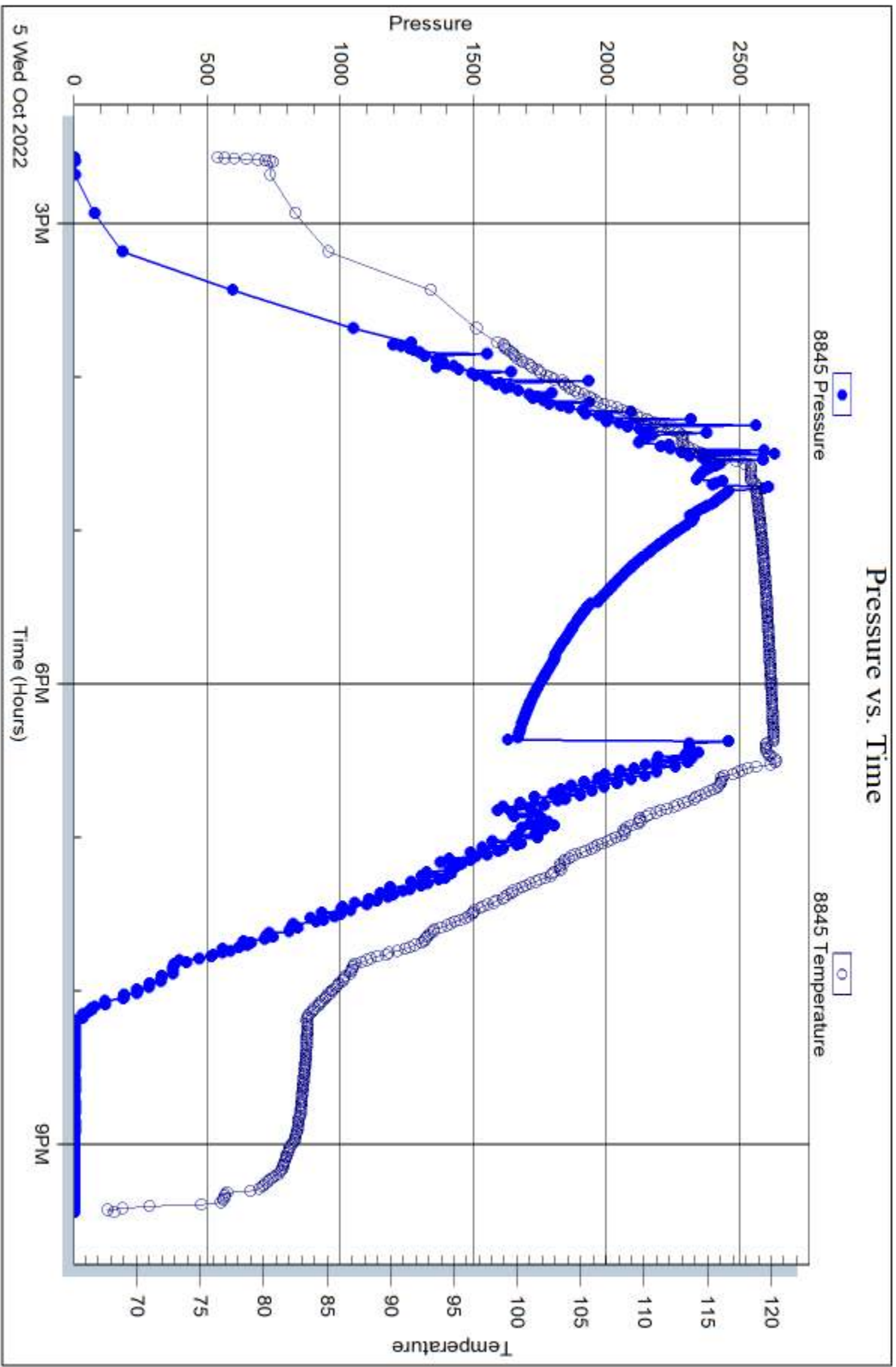


Serial #: 8845

Below (Str Rattenho Petroleum

26-20s-34w Scott KS

DST Test Number: 4



5 Wed Oct 2022

Time (Hours)

Trilobite Testing, Inc

Ref. No: 69182

Printed: 2022.10.07 @ 09:34:27



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

**26-20s-34w Scott,KS**

### **The Times They Are A-Changin' #1**

Start Date: 2022.10.05 @ 21:57:00

End Date: 2022.10.06 @ 06:04:30

Job Ticket #: 69183                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2022.10.07 @ 09:33:43





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St  
New ton KS 67114  
ATTN: Ryan Seib

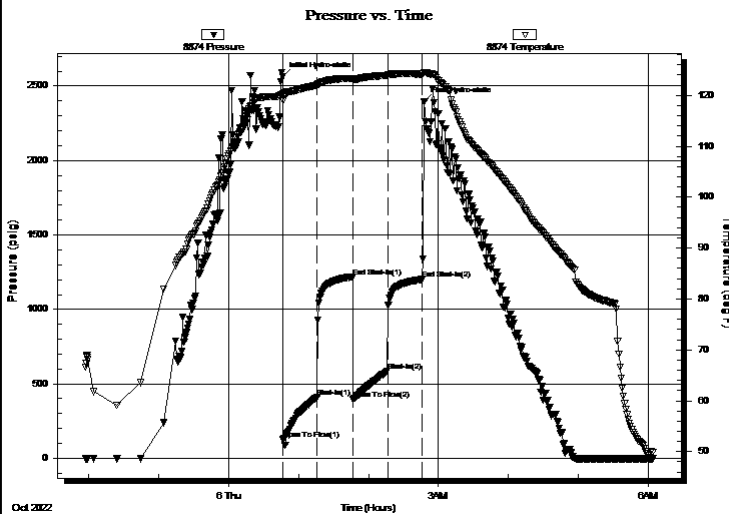
**The Times They Are A-Changin' #1**  
**26-20s-34w Scott,KS**  
Job Ticket: 69183      **DST#: 5**  
Test Start: 2022.10.05 @ 21:57:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Straddle (Reset)  
Time Tool Opened: 00:46:45      Tester: Bradley Walter  
Time Test Ended: 06:04:30      Unit No: 78  
**Interval: 4800.00 ft (KB) To 4844.00 ft (KB) (TVD)**      Reference Elevations: 2967.00 ft (KB)  
Total Depth: 4892.00 ft (KB) (TVD)      2957.00 ft (CF)  
Hole Diameter: 788.00 inchesHole Condition: Good      KB to GR/CF: 10.00 ft

**Serial #: 8874      Outside**  
Press@RunDepth: 585.68 psig @ 4802.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.10.05      End Date: 2022.10.06      Last Calib.: 2022.10.06  
Start Time: 21:57:05      End Time: 06:04:29      Time On Btm: 2022.10.06 @ 00:46:30  
Time Off Btm: 2022.10.06 @ 02:48:00

TEST COMMENT: IF: BOB @ 5 1/2 min- 45 1/2"  
IS: No return,  
FF: BOB @ 6 1/2 min- 40 3/4"  
FS: No return,      30-30-30-30



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2562.45	120.20	Initial Hydro-static
1	128.33	119.05	Open To Flow (1)
30	411.35	121.98	Shut-In(1)
60	1220.23	123.32	End Shut-In(1)
61	396.84	123.01	Open To Flow (2)
90	585.68	123.94	Shut-In(2)
120	1201.81	124.16	End Shut-In(2)
122	2397.12	124.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1240.00	mcw 5m 95w	12.57

\* Recovery from multiple tests

## Gas Rates

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







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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69183

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 21:57:00

## Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 530.00 ft	Diameter: 2.25 inches	Volume: 2.61 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 62.32 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	4800.00 ft			Final	79000.00 lb
Depth to Bottom Packer:	4841.00 ft				
Interval between Packers:	41.00 ft				
Tool Length:	122.00 ft				
Number of Packers:	2	Diameter: 875.00 inches			
Tool Comments:					

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			4771.00	
Shut In Tool	5.00			4776.00	
Hydraulic tool	5.00			4781.00	
Jars	5.00			4786.00	
EM Tool	3.00			4789.00	
Safety Joint	2.00			4791.00	
Packer	5.00			4796.00	30.00 Bottom Of Top Packer
Packer	4.00			4800.00	
Stubb	1.00			4801.00	
Perforations	1.00			4802.00	
Recorder	0.00	8319	Inside	4802.00	
Recorder	0.00	8874	Outside	4802.00	
Change Over Sub	1.00			4803.00	
Drill Pipe	31.00			4834.00	
Change Over Sub	1.00			4835.00	
Perforations	5.00			4840.00	
Blank Off Sub	1.00			4841.00	41.00 Tool Interval
Packer	3.00			4844.00	
Blank Spacing	1.00			4845.00	
Recorder	0.00	8845	Below	4845.00	
Perforations	11.00			4856.00	
Change Over Sub	1.00			4857.00	
Drill Pipe	31.00			4888.00	
Change Over Sub	1.00			4889.00	
Bullnose	3.00			4892.00	51.00 Bottom Packers & Anchor

**Total Tool Length: 122.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**The Times They Are A-Changin' #1**

4924 SE 84th St  
New ton KS 67114

**26-20s-34w Scott,KS**

Job Ticket: 69183

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.10.05 @ 21:57:00

### 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:

52000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1240.00	mcw 5m 95w	12.566

Total Length: 1240.00 ft      Total Volume: 12.566 bbl

Num Fluid Samples: 0

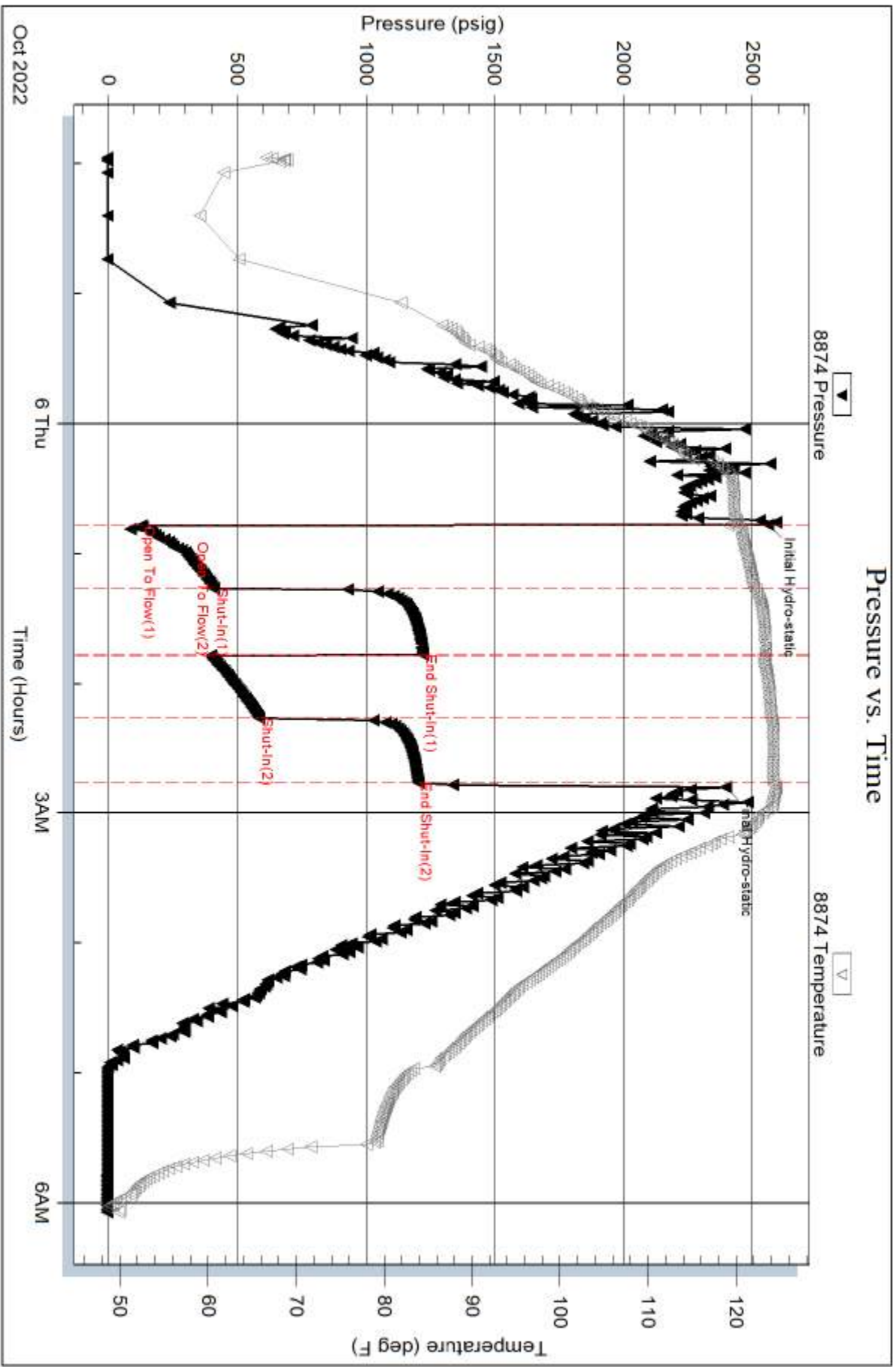
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .192 @ 51F = 52000ppm



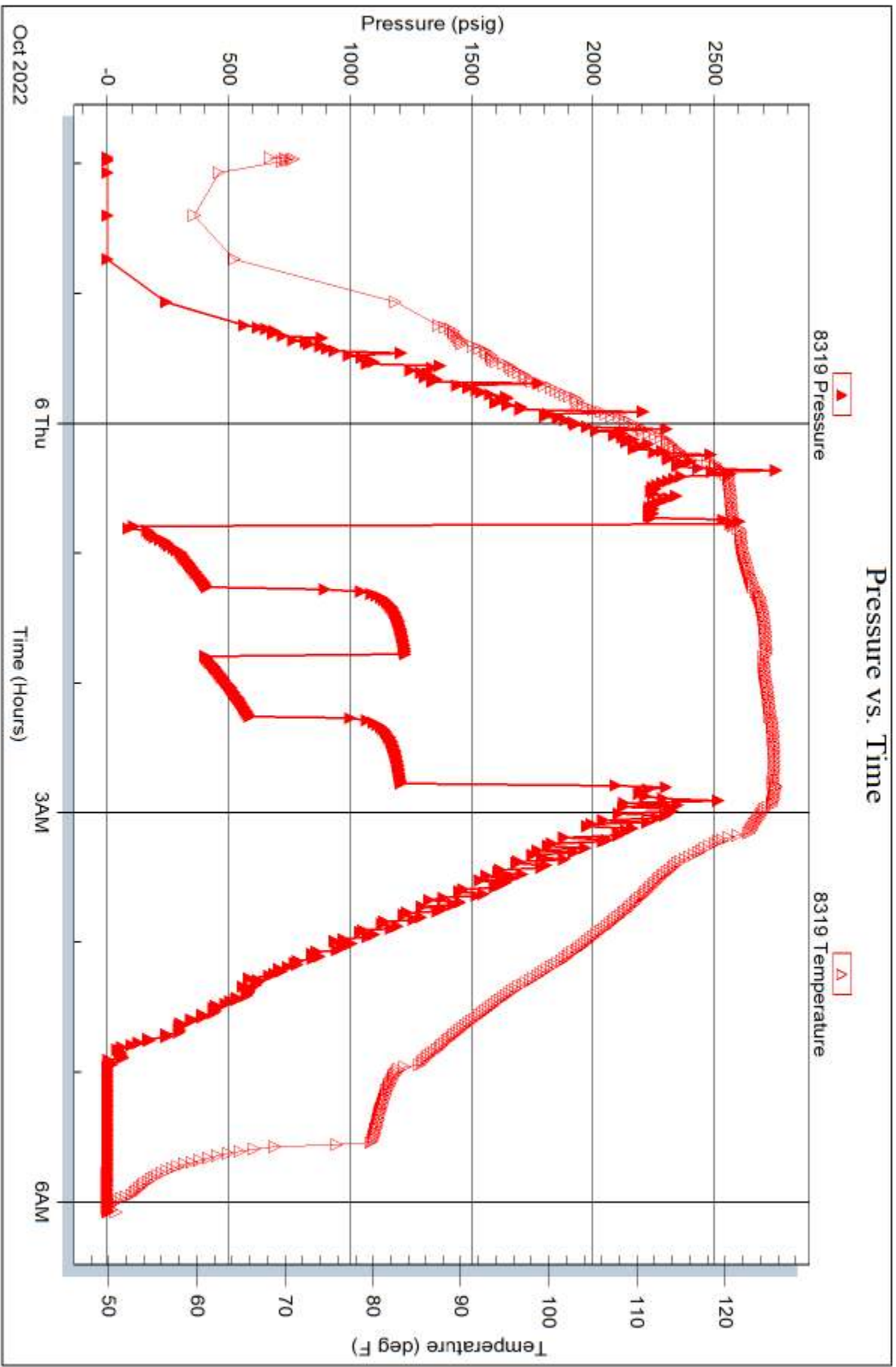
Serial #: 8319

Inside

Palomino Petroleum

26-20s-34w Scott KS

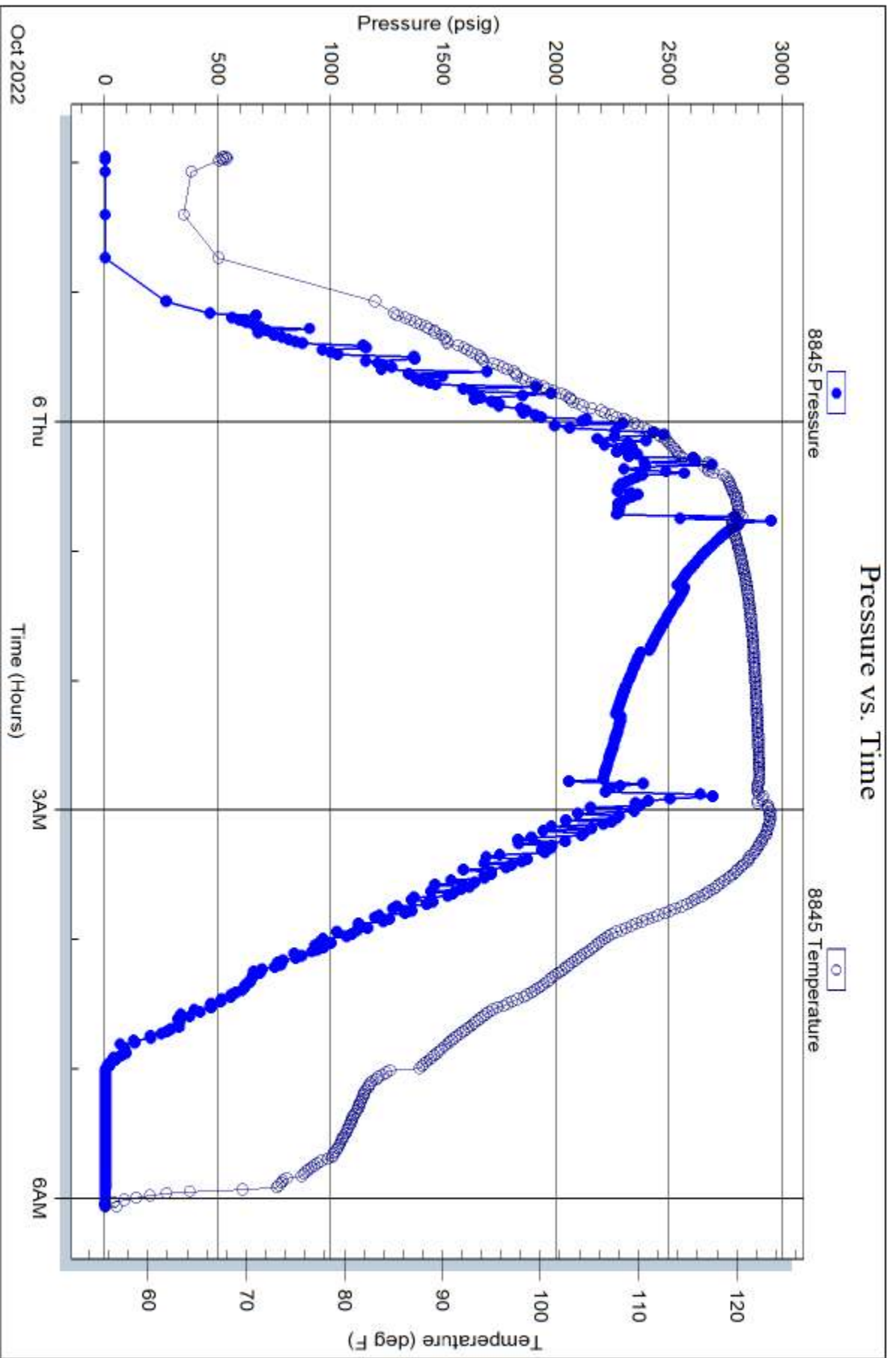
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 69183

Printed: 2022.10.07 @ 09:33:44







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69179

Well Name & No. The Times They are A-Changin' #1 Test No. 1 Date 9/30/2022  
 Company Palomino Petroleum Elevation 2967 KB 2967 GL  
 Address Newton, KS  
 Co. Rep / Geo. Andrew Stenzel Rig Mooden 21  
 Location: Sec. 26 Twp 20S Rge. 34W Co. Scott State KS

Interval Tested 2582-2782 Zone Tested \_\_\_\_\_  
 Anchor Length 200' Drill Pipe Run 234 Mud Wt. 9.6  
 Top Packer Depth 2577 Drill Collars Run 300 Vis 35  
 Bottom Packer Depth 2582 Wt. Pipe Run — WL —  
 Total Depth 2782 Chlorides 49000 ppm System LCM 3#

Blow Description IFI 10" blow  
ISI No return.  
FF 7" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>Mud</u>			<u>100</u>	
	<u>Gas not detected</u>				

Rec Total 240 BHT 92 Gravity — API RW — @ — °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1364</u>	<input checked="" type="checkbox"/> Test <u>1800</u>	T-On Location <u>0000</u>
(B) First Initial Flow <u>52</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>0106</u>
(C) First Final Flow <u>110</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>0325</u>
(D) Initial Shut-In <u>477</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0525</u>
(E) Second Initial Flow <u>119</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0707</u>
(F) Second Final Flow <u>179</u>	<input checked="" type="checkbox"/> Mileage <u>44rt 66</u>	Comments _____
(G) Final Shut-In <u>455</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1294</u>	<input type="checkbox"/> Straddle _____	
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input checked="" type="checkbox"/> EM Tool _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Ruined Packer _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>2166</u>
	Sub Total <u>2166</u>	MP/DST Disc't _____

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

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69180

Well Name & No. The Times They are A-Changin' #1 Test No. 2 Date 10/03/2022  
 Company Palomino Petroleum Elevation 2967 KB 2957 GL  
 Address Newton Ks  
 Co. Rep / Geo. Ryan Seib Rig Mudfin 21  
 Location: Sec. 26 Twp 20s Rge. 34w Co. Scott State Ks

Interval Tested 4340-4444 Zone Tested Marmaton  
 Anchor Length 104' Drill Pipe Run 4088 Mud Wt. 9.3  
 Top Packer Depth 4335 Drill Collars Run 240 Vls 62  
 Bottom Packer Depth 4340 Wt. Pipe Run - WL 7.2  
 Total Depth 4444 Chlorides 2900 ppm System LCM 3#  
 Blow Description IF 2 3/4" blow  
ISI No return.  
FF 2" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>150</u>	<u>wcm</u>		<u>20</u>	<u>80</u>	
	<u>oil spots</u>				

Rec Total 150 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>2157</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>2130</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>2237</u>
(C) First Final Flow <u>67</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0039</u>
(D) Initial Shut-In <u>1120</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0239</u>
(E) Second Initial Flow <u>77</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0453</u>
(F) Second Final Flow <u>100</u>	<input checked="" type="checkbox"/> Mileage <u>44rt 66</u>	Comments
(G) Final Shut-In <u>1069</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2146</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>No</u> ??????	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>2316</u>
	Sub Total <u>2316</u>	MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69181

Well Name & No. The Times They are A-Changin' #1 Test No. 3 Date 10/08/2022  
 Company Palamo Petroleum Elevation 2967 KB 2957 GL  
 Address Newton, KS  
 Co. Rep / Geo. Ryan Seb Rig Martin 21  
 Location: Sec. 26 Twp 20c Rge. 34w Co. Scott State KS

Interval Tested 4440-4520 Zone Tested Pawnee-Scott  
 Anchor Length 80' Drill Pipe Run 4182 Mud Wt. 9.3  
 Top Packer Depth 4435 Drill Collars Run 240 Vis 56  
 Bottom Packer Depth 4440 Wt. Pipe Run — WL 8.0  
 Total Depth 4520 Chlorides 3200 ppm System LCM 3#

Blow Description IF 2" blow  
ISI No return.  
FF 2" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>OCM</u>		<u>10</u>		<u>90</u>
	<u>120' GIP</u>				

Rec Total 60 BHT 104 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2251  Test 1950 T-On Location 1430  
 (B) First Initial Flow 34  Jars 300 T-Started 1545  
 (C) First Final Flow 45  Safety Joint — T-Open 1826  
 (D) Initial Shut-In 1048  Circ Sub — T-Pulled 2026  
 (E) Second Initial Flow 47  Hourly Standby — T-Out 2302  
 (F) Second Final Flow 54  Mileage 44rt 66 Comments —  
 (G) Final Shut-In 999  Sampler —  
 (H) Final Hydrostatic 2151  Straddle —  
 Shale Packer —  EM Tool —  
 Extra Packer —  Ruined Shale Packer —  
 Extra Recorder —  Ruined Packer —  
 Day Standby —  Extra Copies —  
 Accessibility — Sub Total 0  
 Sub Total 2316 Total 2316  
 MP/DST Disc't —

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

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69182

Well Name & No. The Times They are A-Changin' #1 Test No. 24 Date 10/05/2022  
 Company Palomo Petroleum Elevation 2967 KB 2957 GL  
 Address Newton KS  
 Co. Rep / Geo. Ryan Seb Rig Merlin 21  
 Location: Sec. 26 Twp 20s Rge. 34w Co. Scott State KS

Interval Tested 4665-4805 Zone Tested Morrow  
 Anchor Length 140' Tail-87 Drill Pipe Run 4407 Mud Wt. 9.3  
 Top Packer Depth 4660-4665 Drill Collars Run 240 Vis 60  
 Bottom Packer Depth 4805 Wt. Pipe Run — WL 8.0  
 Total Depth 4892 Chlorides 3400 ppm System LCM 2<sup>nd</sup>

Blow Description IF BOB @ 3 min - 23 1/2"  
FSI No return.  
FF BOB @ 5 min - 25 1/2" blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>690</u>	<u>MCW</u>		<u>85</u>	<u>15</u>	

Rec Total 690 BHT 120 Gravity — API RW .143 @ 61 °F Chlorides 64000 ppm

(A) Initial Hydrostatic <u>2386</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>1400</u>
(B) First Initial Flow <u>108</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1432</u>
(C) First Final Flow <u>225</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>1643</u>
(D) Initial Shut-In <u>982</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>1820</u>
(E) Second Initial Flow <u>237</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2127</u>
(F) Second Final Flow <u>335</u>	<input checked="" type="checkbox"/> Mileage <u>44rt 66</u>	Comments
(G) Final Shut-In <u>762</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2248</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>20</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 15h</u>	Sub Total <u>500 - 350</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>4016</u>
	Sub Total <u>3166</u>	MP/DST Disc't

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69183

Well Name & No. The Times They are A-Changin' #1 Test No. 5 Date 10/06/2022  
 Company Palomino Petroleum Elevation 2967 KB 2957 GL  
 Address Ryan Seib Newton Ks  
 Co. Rep / Geo. Ryan Seib Rig ModAn 21  
 Location: Sec. 26 Twp 20s Rge. 34w Co. Scott State Ks

Interval Tested 4800-4844 Zone Tested Mississippian  
 Anchor Length 44' Tail 48 Drill Pipe Run 4257 Mud Wt. 9.3  
 Top Packer Depth 4795+4800 Drill Collars Run 530 Vis 60  
~~Stysdale~~ 4844 Wt. Pipe Run — WL 8.0  
 Total Depth 4892 Chlorides 3400 ppm System LCM 2#

Blow Description IF BOB@ 5 1/2 min - 45 1/2"  
ISI No return.  
FF BOB@ 6 1/2 min - 40 3/4"  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1240</u>	<u>mcw</u>			<u>95%</u>	<u>5</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1240 BHT 124 Gravity — API RW 192 @ 51 °F Chlorides 52,000 ppm

(A) Initial Hydrostatic <u>2562</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>2130</u>
(B) First Initial Flow <u>128</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>2157</u>
(C) First Final Flow <u>411</u>	<input checked="" type="checkbox"/> Safety Joint	T-Open <u>0048</u>
(D) Initial Shut-In <u>1220</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0248</u>
(E) Second Initial Flow <u>396</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0606</u>
(F) Second Final Flow <u>585</u>	<input checked="" type="checkbox"/> Mileage <u>NO</u>	Comments <u>Stayed @ RIG</u>
(G) Final Shut-In <u>1201</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2397</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>-350</u>
	<input type="checkbox"/> Accessibility	Total <u>3100</u>
	Sub Total <u>3100</u>	MP/DST Disc't

Approved By \_\_\_\_\_

Our Representative \_\_\_\_\_

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

Customer:  
 PALOMINO PETROLEUM INC  
 4924 SE 84TH ST  
 NEWTON, KS 67114-8827

Invoice Date: 10/6/2022  
 Invoice #: 0364026  
 Lease Name: The Times They Are  
 Well #: A Changin 1  
 County: Scott, Ks  
 Job Number: WP3474  
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
PTA	0.000	0.000	0.00
H-Plug	250.000	14.000	3,500.00
Light Eq Mileage	70.000	2.000	140.00
Heavy Eq Mileage	140.000	4.000	560.00
Ton Mileage	753.000	1.500	1,129.50
Depth Charge 2001'-3000'	1.000	2,000.000	2,000.00
Cement Blending & Mixing	250.000	1.400	350.00
Service Supervisor	1.000	275.000	275.00
Wooden plug 8 5/8"	1.000	175.000	175.00

Net Invoice	8,129.50
Sales Tax:	547.32
<b>Total</b>	<b>8,676.82</b>

**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!**





**CEMENT TREATMENT REPORT**

<b>Customer:</b> Palomino Petroleum	<b>Well:</b> The times they are A changin # 1	<b>Ticket:</b> WP-3474
<b>City, State:</b> Friend KS	<b>County:</b> Scott KS	<b>Date:</b> 10/6/2022
<b>Field Rep:</b> Juan	<b>S-T-R:</b> 36-20S-34W	<b>Service:</b> PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-Plug	Blend:	
Hole Depth:	4890 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft <sup>3</sup> / sx	Yield:	ft <sup>3</sup> / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	2160 ft	Depth:	ft
Tool / Packer:		Annular Volume:	87.7 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	40.1 bbls	Total Slurry:	63.2 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	250 sx	Total Sacks:	0 sx

TIME	RATE	PSI	BBLs	TOTAL BBLs	REMARKS
10:10a			-	-	Arrival
10:15a				-	Safety meeting
10:20a				-	Rig up
11:25a	4.5	230.0	5.0	5.0	H2O ahead
11:28a	4.0	230.0	12.6	17.6	Mixed 50 sks of H-plug @ 13.8 ppg @ 2160'
11:32a	4.5	200.0	26.2	43.8	Displaced H2O
11:36a				43.8	Pull pipe to 1200'
12:02p	4.3	210.0	5.0	48.8	H2O ahead
12:05p	4.5	230.0	20.2	69.0	Mixed 80 sks of H-plug @ 13.8 ppg @ 1200'
12:12p	4.0	190.0	9.9	78.9	Displaced H2O
12:14p				78.9	Pull pipe to 270'
12:44p	4.5	130.0	5.0		H2O ahead
12:46p	4.0	160.0	12.6		Mixed 50 sks of H-plug @ 13.8 ppg @ 270'
12:49p	1.5	90.0	3.9		Displaced H2O
12:52p					Pull pipe to 60'
12:53p	2.5	90.0	5.0		Mixed 20 sks of H-plug @ 13.8 ppg @ 60'
1:05p					Pull pipe to surface
1:20p	2.5	90.0	7.5		Mixed 30 sks of H-plug @ 13.8 ppg @ Rat hole
1:25p	2.5	90.0	5.0		Mixed 20 sks of H-plug @ 13.8 ppg @ Mouse hole
1:30p					Plug down
1:33p					Wash up
1:40p					Rig Down
2:00p					Depart location

		UNIT	SUMMARY		
<b>CREW</b>		78	Average Rate	Average Pressure	Total Fluid
Cementer:	Jesse	230	3.6 bpm	162 psi	118 bbls
Pump Operator:	Michael	205			
Bulk #1:	Tyler				
Bulk #2:					