

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) (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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## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84 St  
Newton, KS 67114

ATTN: Ryan Seib

### **Stutz Unit #2**

### **7-17s-25w Ness,KS**

Start Date: 2022.03.08 @ 00:00:00

End Date:

Job Ticket #: 68226

DST #: 1

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

Printed: 2022.03.11 @ 12:08:08



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness,KS**

**Stutz Unit #2**

Job Ticket: 68226

**DST#: 1**

Test Start: 2022.03.08 @ 00:00:00

## GENERAL INFORMATION:

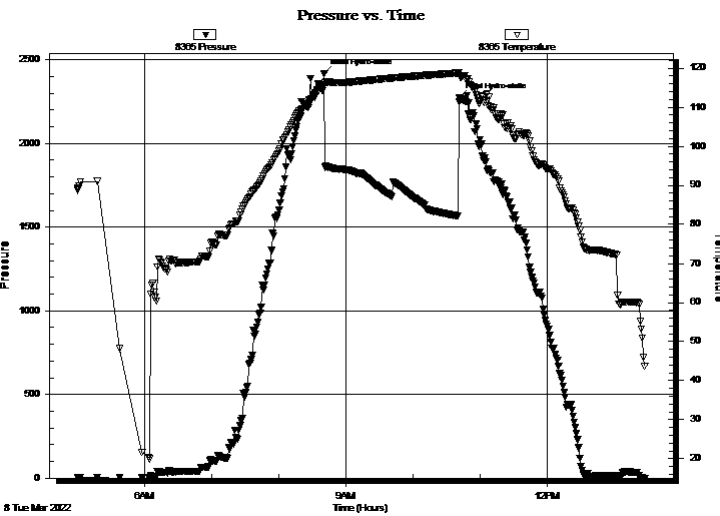
Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
 Interval: **4420.00 ft (KB) To 4528.00 ft (KB) (TVD)**  
 Total Depth: 4528.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Kevin Webster  
 Unit No: 72  
 Reference Elevations: 2561.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8365**

**Outside**

Press@RunDepth: psig @ 4525.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.08 End Date: 2022.03.08 Last Calib.: 2022.03.08  
 Start Time: 05:00:01 End Time: 13:28:02 Time On Btm: 2022.03.08 @ 08:40:32  
 Time Off Btm: 2022.03.08 @ 10:41:32

**TEST COMMENT:** 30 min IF- WSB built to 2.25"  
 30 min IS- WSB  
 30 min FF- WSB died in 11 min  
 30 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2418.51	115.63	Initial Hydro-static
121	2272.80	118.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68226 **DST#: 1**

ATTN: Ryan Seib

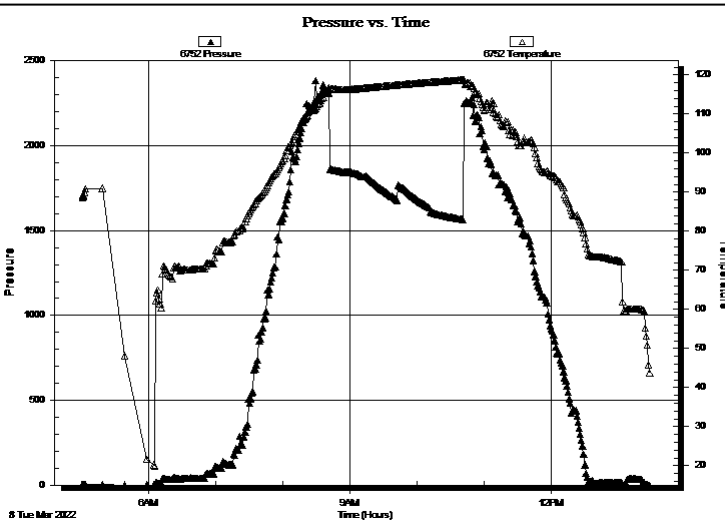
Test Start: 2022.03.08 @ 00:00:00

## GENERAL INFORMATION:

Formation: <b>Miss.</b>		Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	ft (KB)	Tester: Kevin Webster
Time Tool Opened:		Unit No: 72
Time Test Ended:		Reference Elevations: 2561.00 ft (KB)
<b>Interval: 4420.00 ft (KB) To 4528.00 ft (KB) (TVD)</b>		2551.00 ft (CF)
Total Depth: 4528.00 ft (KB) (TVD)		KB to GR/CF: 10.00 ft
Hole Diameter: 7.78 inches	Hole Condition: Poor	

<b>Serial #: 6752</b>	<b>Outside</b>				
Press@RunDepth: psig @	4525.00 ft (KB)	Capacity: psig			
Start Date: 2022.03.08	End Date: 2022.03.08	Last Calib.: 2022.03.08			
Start Time: 05:00:59	End Time: 13:29:00	Time On Btm:			
		Time Off Btm:			

**TEST COMMENT:**  
 30 min IF- WSB built to 2.25"  
 30 min ISL- WSB  
 30 min FF- WSB died in 11 min  
 30 min FSI- No returns



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

Recovery		
Length (ft)	Description	Volume (bbl)

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68226

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.03.08 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 4162.00 ft	Diameter: 3.80 inches	Volume: 58.38 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose:	73000.00 lb
			<u>Total Volume: 59.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	73000.00 lb
Depth to Top Packer:	4420.00 ft			Final	73000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	108.00 ft				
Tool Length:	135.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4398.00	
Hydraulic tool	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	3.00			4411.00	
Packer	5.00			4416.00	27.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Perforations	9.00			4430.00	
Change Over Sub	1.00			4431.00	
Drill Pipe	93.00			4524.00	
Change Over Sub	1.00			4525.00	
Recorder	0.00	8365	Outside	4525.00	
Recorder	0.00	6752	Outside	4525.00	
Bullnose	3.00			4528.00	108.00 Bottom Packers & Anchor

**Total Tool Length: 135.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68226

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.03.08 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length:

ft

Total Volume:

bbbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

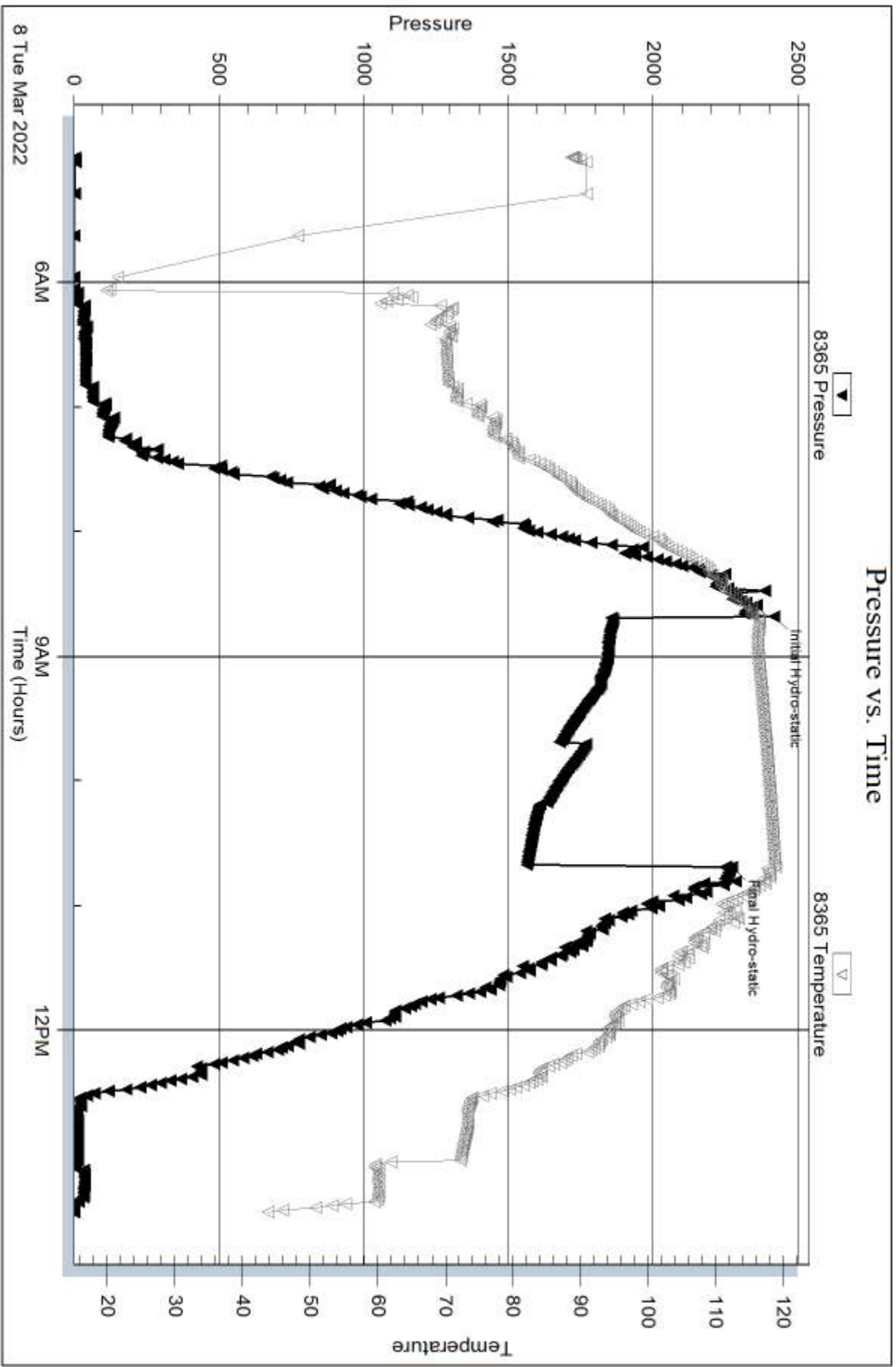
Recovery Comments:

Serial #: 8365

Outside Palomino Petroleum

Slutz Unit #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68226

Printed: 2022.03.11 @ 12:08:09

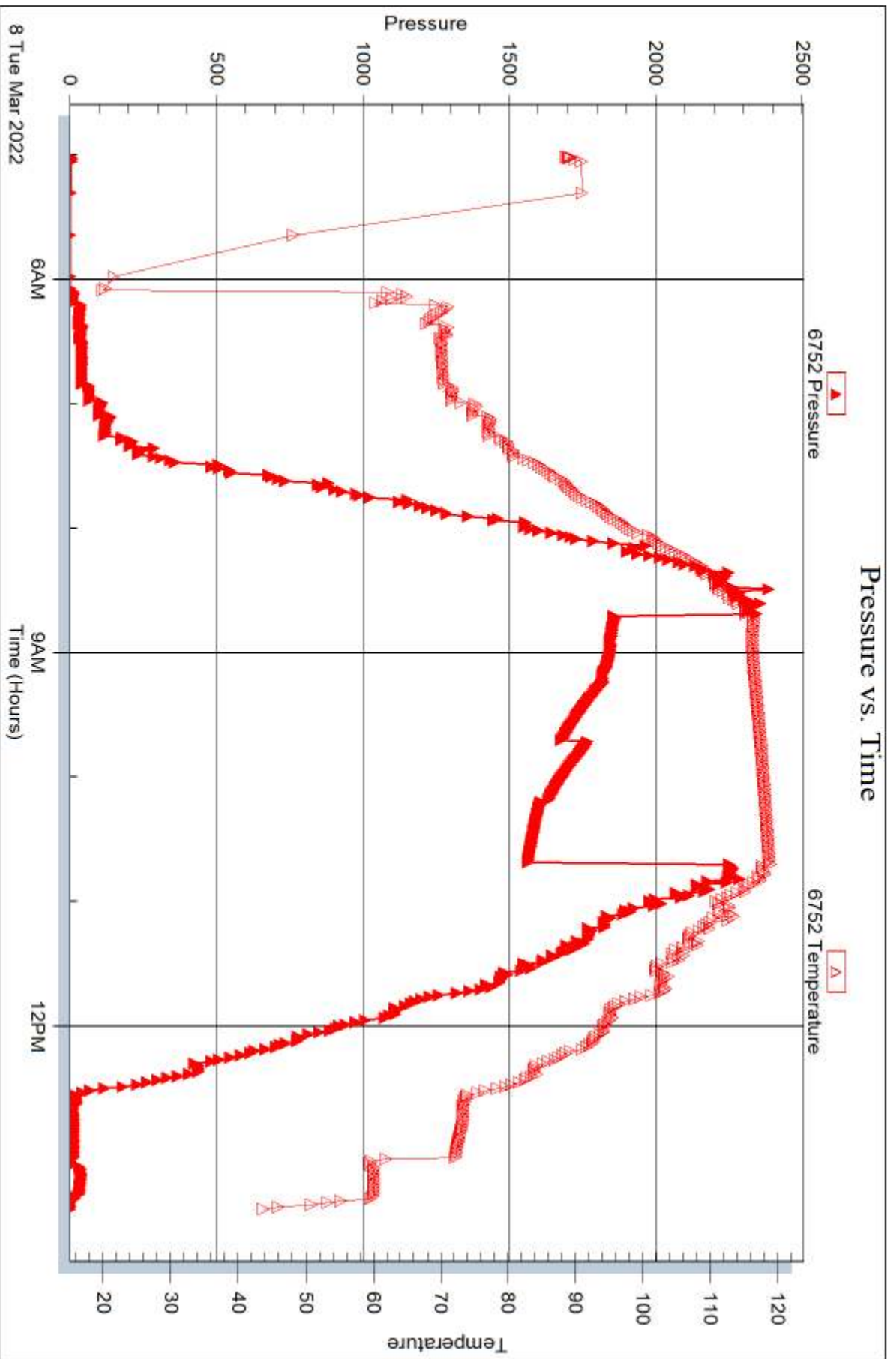
Serial #: 6752

Outside

Palomino Petroleum

Slutz Unit #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68226

Printed: 2022.03.11 @ 12:08:09



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84 St  
Newton, KS 67114

ATTN: Ryan Seib

### **Stutz Unit #2**

#### **7-17s-25w Ness,KS**

Start Date: 2022.03.08 @ 14:13:00

End Date: 2022.03.08 @ 20:31:02

Job Ticket #: 68227                      DST #: 2

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

Printed: 2022.03.11 @ 12:06:52



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness, KS**

**Stutz Unit #2**

Job Ticket: 68227

**DST#: 2**

Test Start: 2022.03.08 @ 14:13:00

## GENERAL INFORMATION:

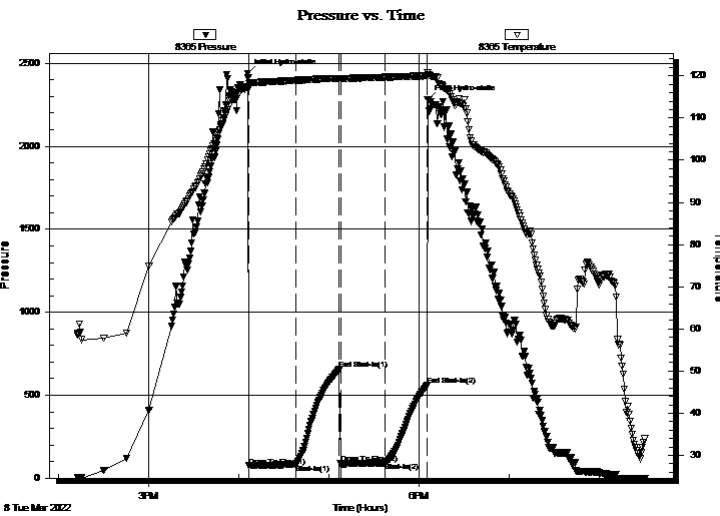
Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:07:02  
 Tester: Kevin Webster  
 Time Test Ended: 20:31:02  
 Unit No: 72  
 Interval: **4420.00 ft (KB) To 4528.00 ft (KB) (TVD)**  
 Reference Elevations: 2561.00 ft (KB)  
 Total Depth: 4528.00 ft (KB) (TVD)  
 2551.00 ft (CF)  
 Hole Diameter: 7.78 inches  
 Hole Condition: Poor  
 KB to GR/CF: 10.00 ft

## Serial #: 8365

**Outside**

Press@RunDepth: 95.19 psig @ 4525.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.08 End Date: 2022.03.08 Last Calib.: 2022.03.08  
 Start Time: 14:13:01 End Time: 20:31:02 Time On Btm: 2022.03.08 @ 16:06:17  
 Time Off Btm: 2022.03.08 @ 18:06:02

TEST COMMENT: 30 min IF- WSB built to 2"  
 30 min IS- No returns  
 30 min FF- WSB  
 30 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2439.26	117.27	Initial Hydro-static
1	74.46	116.91	Open To Flow (1)
32	84.60	118.92	Shut-In(1)
61	654.56	119.41	End Shut-In(1)
62	86.71	119.33	Open To Flow (2)
92	95.19	119.68	Shut-In(2)
120	557.96	120.05	End Shut-In(2)
120	2279.76	120.82	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	VSOCM 1% O 99% M	0.30

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

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

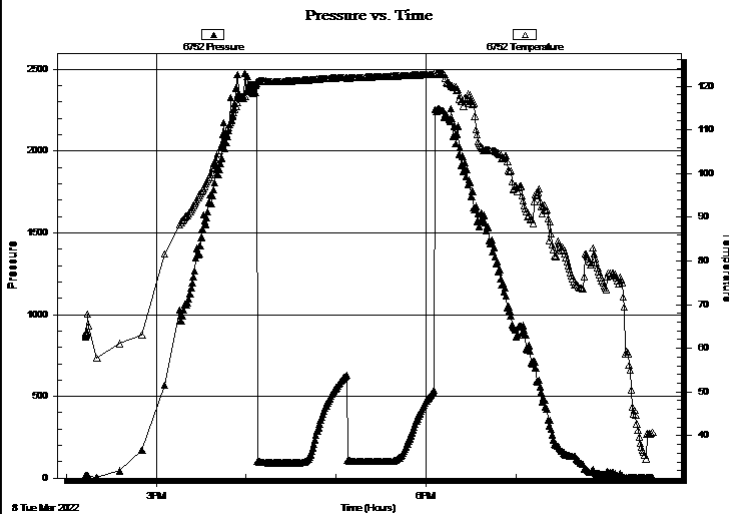
**7-17s-25w Ness,KS**  
**Stutz Unit #2**  
Job Ticket: 68227 **DST#: 2**  
Test Start: 2022.03.08 @ 14:13:00

**GENERAL INFORMATION:**

Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:07:02 Tester: Kevin Webster  
 Time Test Ended: 20:31:02 Unit No: 72  
 Interval: **4420.00 ft (KB) To 4528.00 ft (KB) (TVD)** Reference Elevations: 2561.00 ft (KB)  
 Total Depth: 4528.00 ft (KB) (TVD) 2551.00 ft (CF)  
 Hole Diameter: 7.78 inches Hole Condition: Poor KB to GR/CF: 10.00 ft

**Serial #: 6752 Outside**  
 Press@RunDepth: psig @ 4525.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.08 End Date: 2022.03.08 Last Calib.: 2022.03.08  
 Start Time: 14:13:01 End Time: 20:31:02 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 30 min IF- WSB built to 2"  
 30 min IS- No returns  
 30 min FF- WSB  
 30 min FSI- No returns



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
62.00	VSOCM 1% O 99% M	0.30

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68227

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.03.08 @ 14:13:00

## Tool Information

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4420.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	108.00 ft			
Tool Length:	135.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4398.00	
Hydraulic tool	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	3.00			4411.00	
Packer	5.00			4416.00	27.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Perforations	9.00			4430.00	
Change Over Sub	1.00			4431.00	
Drill Pipe	93.00			4524.00	
Change Over Sub	1.00			4525.00	
Recorder	0.00	8365	Outside	4525.00	
Recorder	0.00	6752	Outside	4525.00	
Bullnose	3.00			4528.00	108.00 Bottom Packers & Anchor

**Total Tool Length: 135.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68227

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.03.08 @ 14:13:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	VSOCM 1% O 99% M	0.305

Total Length: 62.00 ft      Total Volume: 0.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

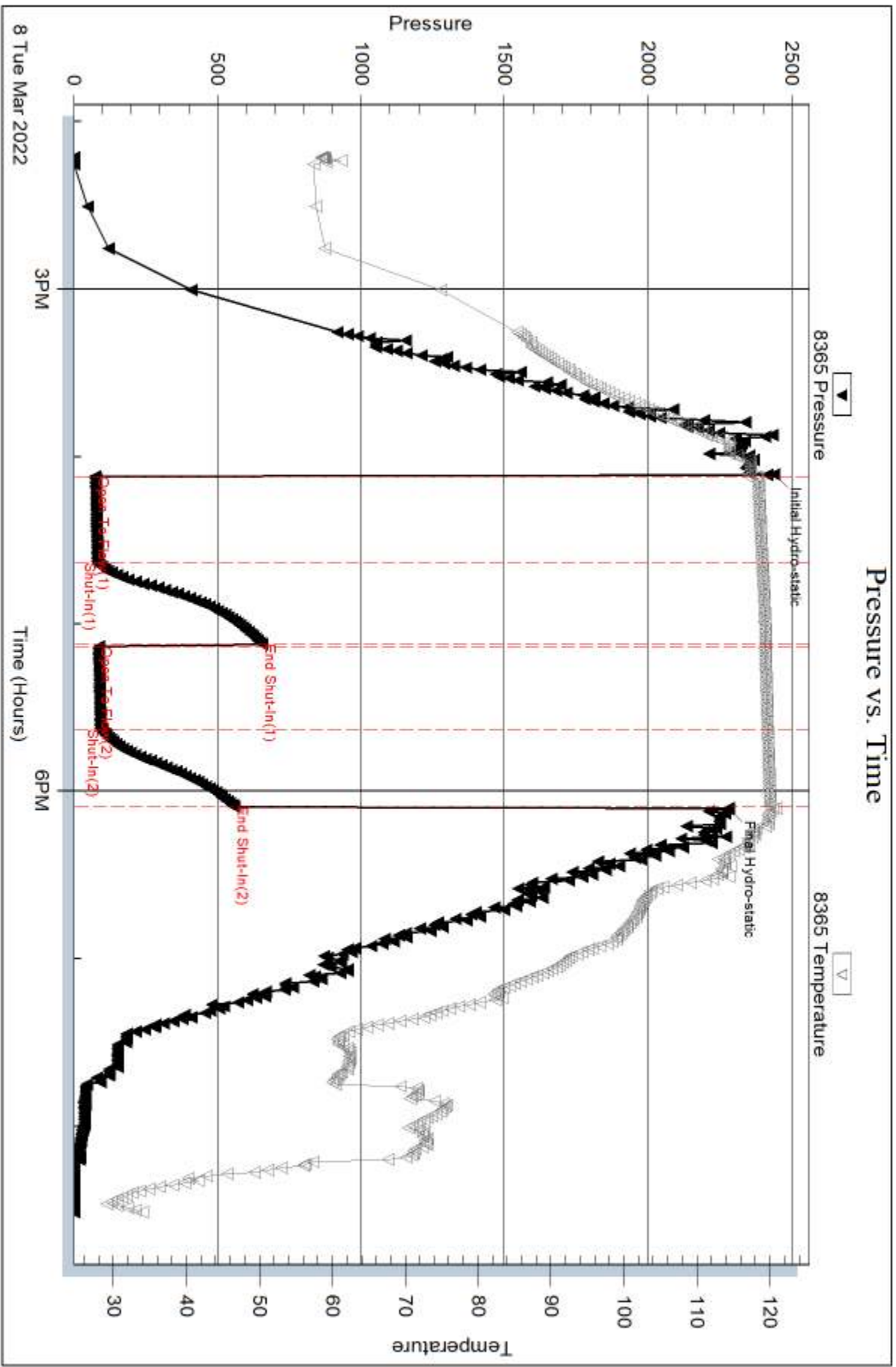


Serial #: 8365

Outside Palomino Petroleum

Stutz Unit #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68227

Printed: 2022.03.11 @ 12:06:55

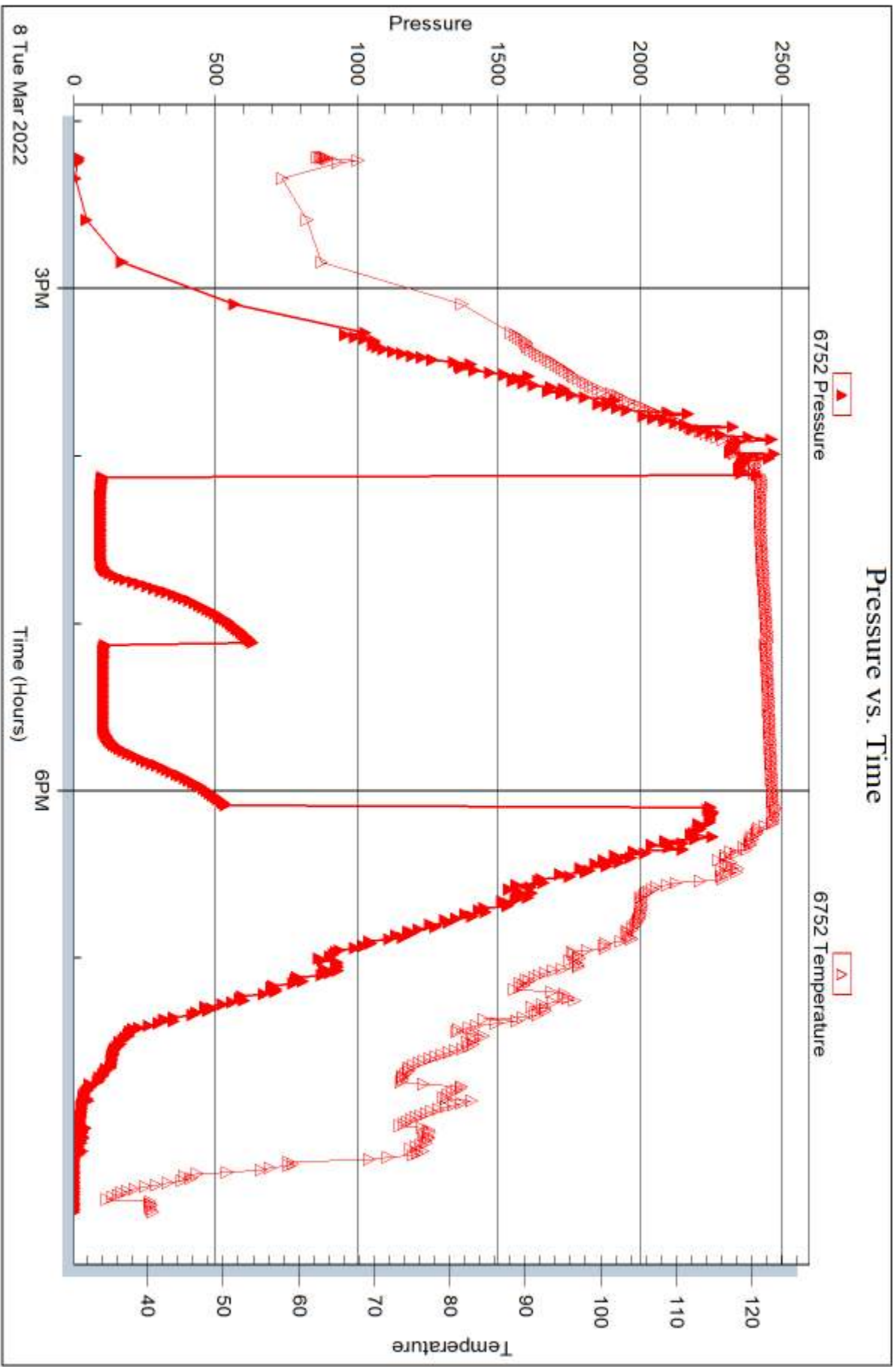
Serial #: 6752

Outside

Palomino Petroleum

Stutz Unit #2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68227

Printed: 2022.03.11 @ 12:06:55



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84 St  
Newton, KS 67114

ATTN: Ryan Seib

### **Stutz Unit #2**

#### **7-17s-25w Ness,KS**

Start Date: 2022.03.09 @ 00:00:00

End Date: 2022.03.09 @ 06:36:02

Job Ticket #: 68228                      DST #: 3

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

Printed: 2022.03.11 @ 12:08:39



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness, KS**

**Stutz Unit #2**

Job Ticket: 68228

**DST#: 3**

Test Start: 2022.03.09 @ 00:00:00

## GENERAL INFORMATION:

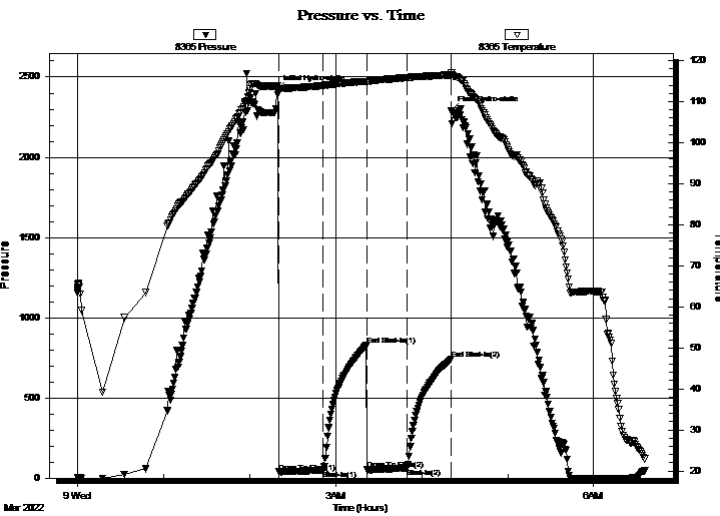
Formation: **Miss.**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:20:17  
 Time Test Ended: 06:36:02  
 Interval: **4479.00 ft (KB) To 4535.00 ft (KB) (TVD)**  
 Total Depth: 4620.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Kevin Webster  
 Unit No: 72  
 Reference Elevations: 2561.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8365**

**Outside**

Press@RunDepth: 62.80 psig @ 4535.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.09 End Date: 2022.03.09 Last Calib.: 2022.03.09  
 Start Time: 00:00:01 End Time: 06:36:02 Time On Btm: 2022.03.09 @ 02:19:02  
 Time Off Btm: 2022.03.09 @ 04:20:47

TEST COMMENT: 30 min IF- WSB died in 25 min  
 30 min ISI- No returns  
 30 min FF- No blow  
 30 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2423.50	113.78	Initial Hydro-static
2	38.74	112.51	Open To Flow (1)
33	48.66	113.89	Shut-In(1)
63	828.41	114.92	End Shut-In(1)
63	52.44	114.77	Open To Flow (2)
91	62.80	115.81	Shut-In(2)
122	740.88	116.50	End Shut-In(2)
122	2292.40	117.09	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 1%O 99% M	0.05

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68228

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.03.09 @ 00:00:00

### GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:20:17

Time Test Ended: 06:36:02

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

**Interval: 4479.00 ft (KB) To 4535.00 ft (KB) (TVD)**

Reference Elevations: 2561.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2551.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6752 Outside**

Press@RunDepth: psig @ 4535.00 ft (KB)

Capacity: psig

Start Date: 2022.03.09

End Date: 2022.03.09

Last Calib.: 1899.12.30

Start Time: 00:00:01

End Time: 06:36:02

Time On Btm:

Time Off Btm:

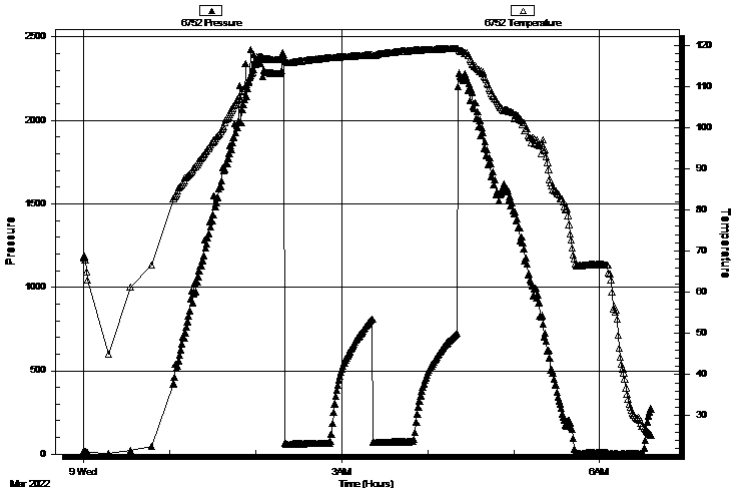
TEST COMMENT: 30 min IF- WSB died in 25 min

30 min ISL- No returns

30 min FF- No blow

30 min FSI- No returns

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 1%O 99% M	0.05

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68228

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.03.09 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:20:17

Time Test Ended: 06:36:02

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

**Interval: 4479.00 ft (KB) To 4535.00 ft (KB) (TVD)**

Reference Elevations: 2561.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2551.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 6755 Below (Straddle)**

Press@RunDepth: psig @ 4606.00 ft (KB)

Capacity: psig

Start Date: 2022.03.09

End Date:

2022.03.09

Last Calib.:

1899.12.30

Start Time: 00:00:01

End Time:

06:36:02

Time On Btm:

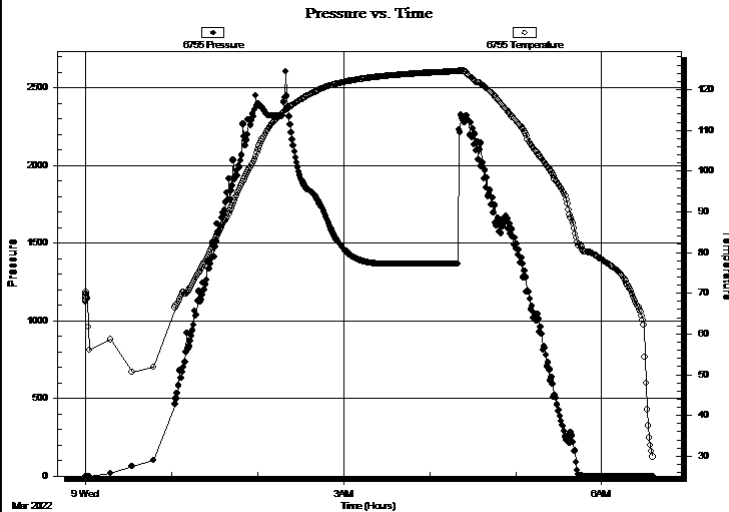
Time Off Btm:

TEST COMMENT: 30 min IF- WSB died in 25 min

30 min ISL- No returns

30 min FF- No blow

30 min FSI- No returns



## PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
10.00	VSOCM 1%O 99% M	0.05

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68228

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.03.09 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 4216.00 ft	Diameter: 3.80 inches	Volume: 59.14 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4479.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	4535.00 ft			
Interval between Packers:	56.00 ft			
Tool Length:	157.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			4457.00	
Hydraulic tool	5.00			4462.00	
Jars	5.00			4467.00	
Safety Joint	3.00			4470.00	
Packer	5.00			4475.00	27.00 Bottom Of Top Packer
Packer	4.00			4479.00	
Stubb	1.00			4480.00	
Perforations	22.00			4502.00	
Change Over Sub	1.00			4503.00	
Drill Pipe	31.00			4534.00	
Change Over Sub	1.00			4535.00	
Recorder	0.00	8365	Outside	4535.00	
Recorder	0.00	6752	Outside	4535.00	56.00 Tool Interval
Packer	4.00			4539.00	
Stubb	1.00			4540.00	
Change Over Sub	1.00			4541.00	
Drill Pipe	62.00			4603.00	
Change Over Sub	1.00			4604.00	
Perforations	2.00			4606.00	
Recorder	0.00	6755	Below	4606.00	
Bullnose	3.00			4609.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 157.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68228

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.03.09 @ 00:00:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	VSOCM 1%O 99% M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

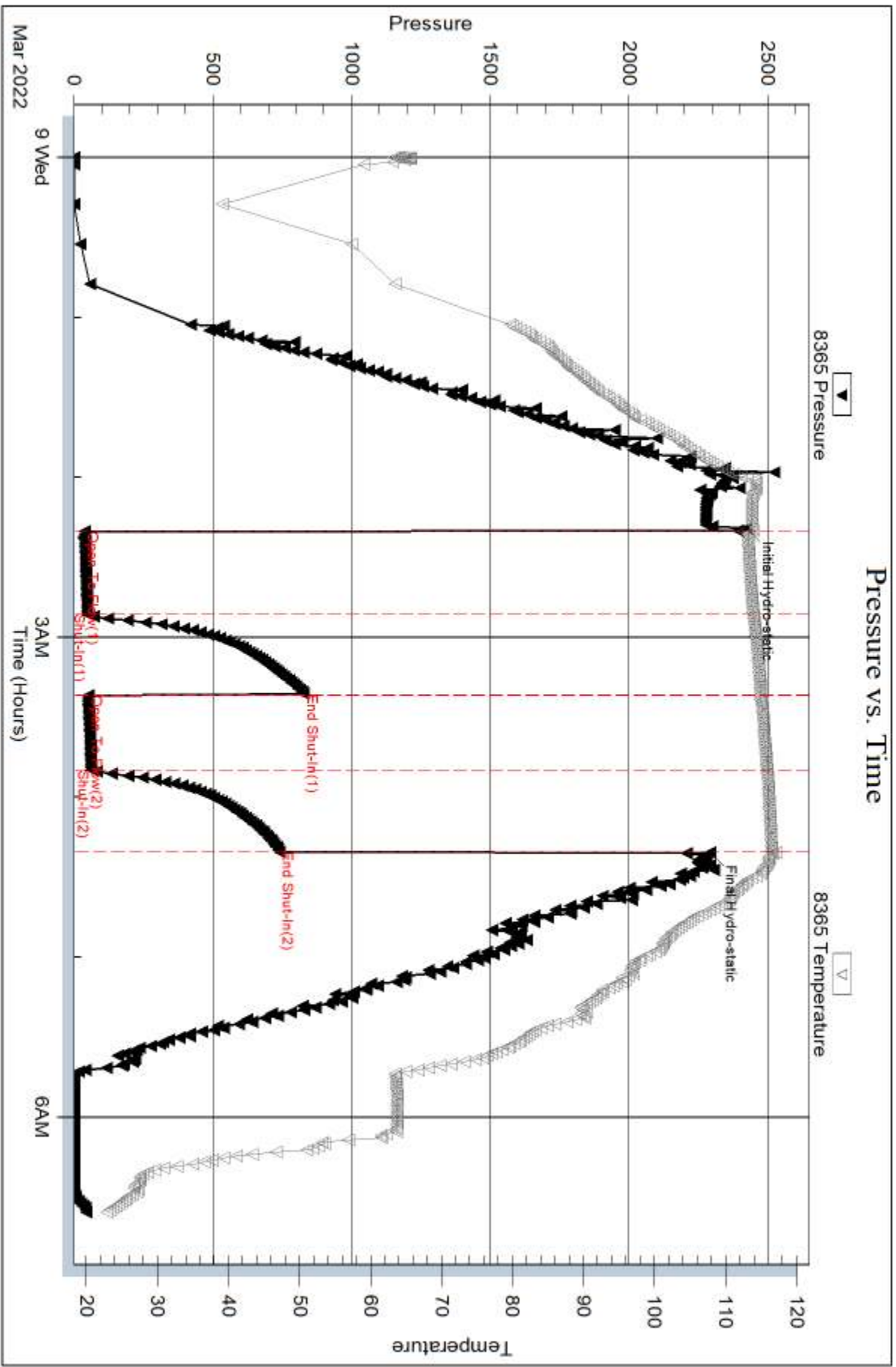


Serial #: 8365

Outside Palomino Petroleum

Slutz Unit #2

DST Test Number: 3



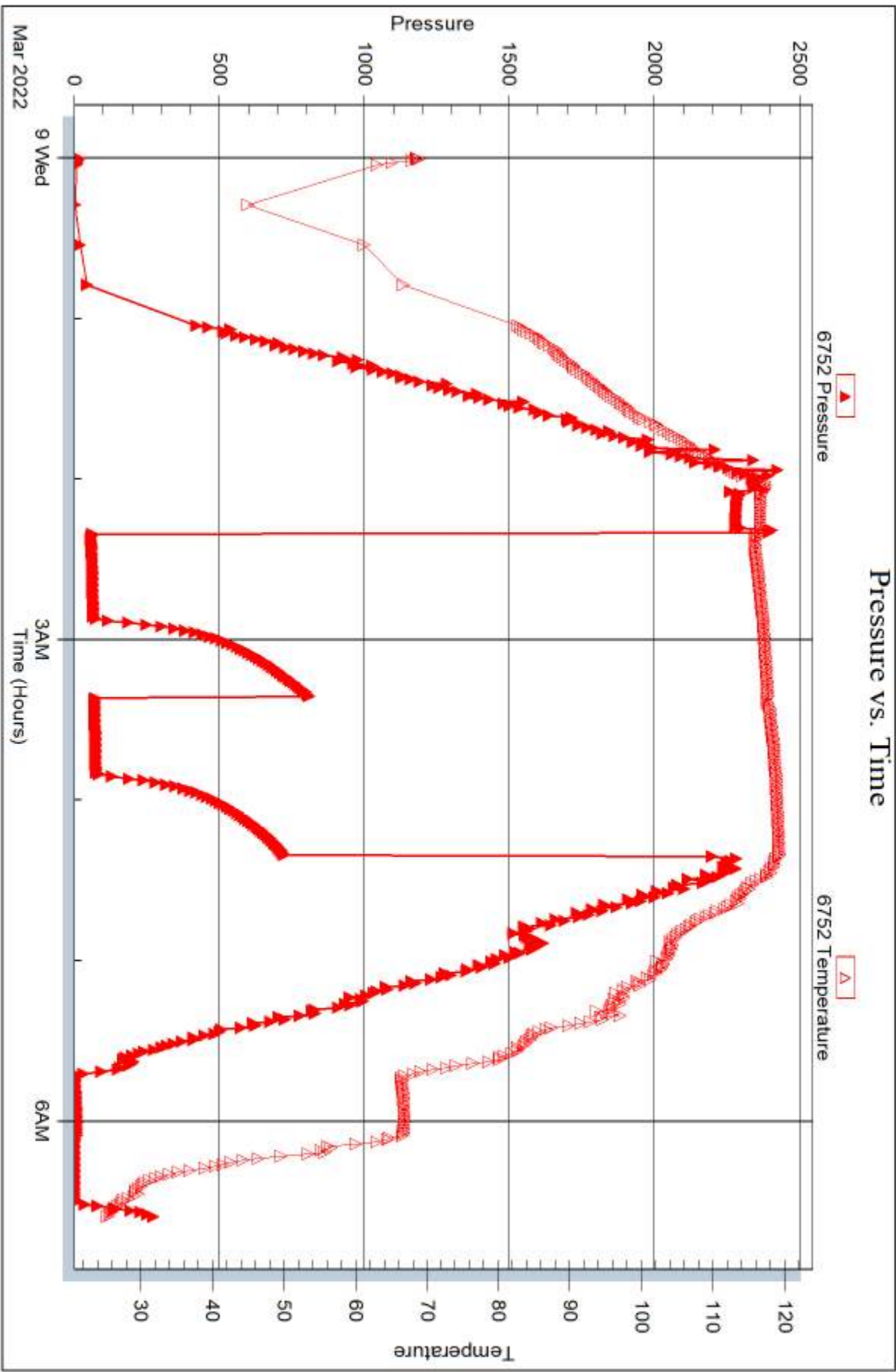
Serial #: 6752

Outside

Palomino Petroleum

Stutz Unit #2

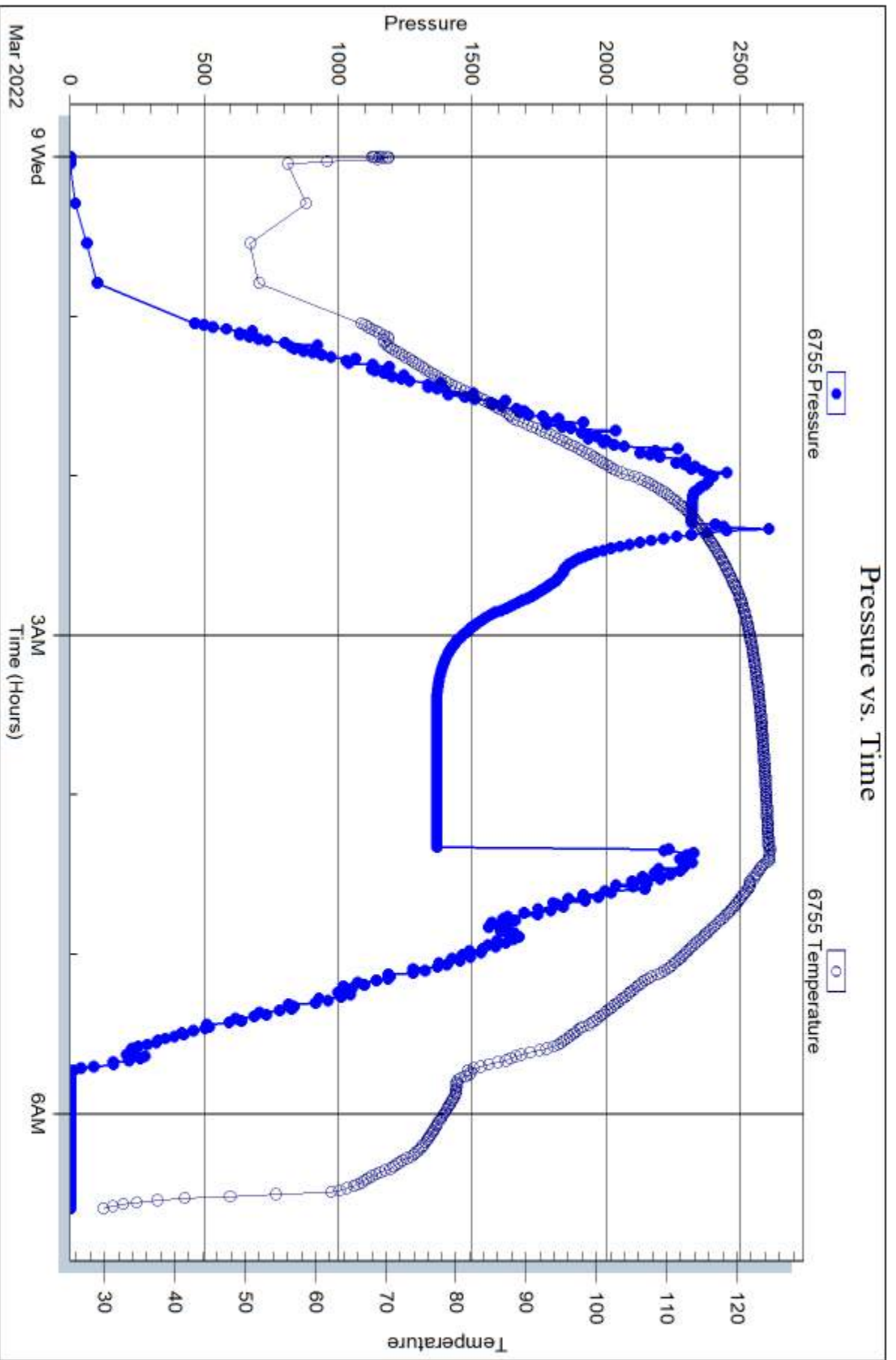
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68228

Printed: 2022.03.11 @ 12:08:41





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84 St  
Newton, KS 67114

ATTN: Ryan Seib

### **Stutz Unit #2**

### **7-17s-25w Ness,KS**

Start Date: 2022.03.10 @ 19:11:00

End Date: 2022.03.11 @ 02:21:02

Job Ticket #: 68229                      DST #: 4

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

Printed: 2022.03.11 @ 12:04:55



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness, KS**

**Stutz Unit #2**

Job Ticket: 68229

**DST#: 4**

Test Start: 2022.03.10 @ 19:11:00

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:41:47  
 Time Test Ended: 02:21:02  
 Interval: **4535.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
 Total Depth: 4528.00 ft (KB) (TVD)  
 Hole Diameter: 7.78 inches Hole Condition: Poor  
 Test Type: Conventional Straddle (Reset)  
 Tester: Kevin Webster  
 Unit No: 72  
 Reference Elevations: 2561.00 ft (KB)  
 2551.00 ft (CF)  
 KB to GR/CF: 10.00 ft

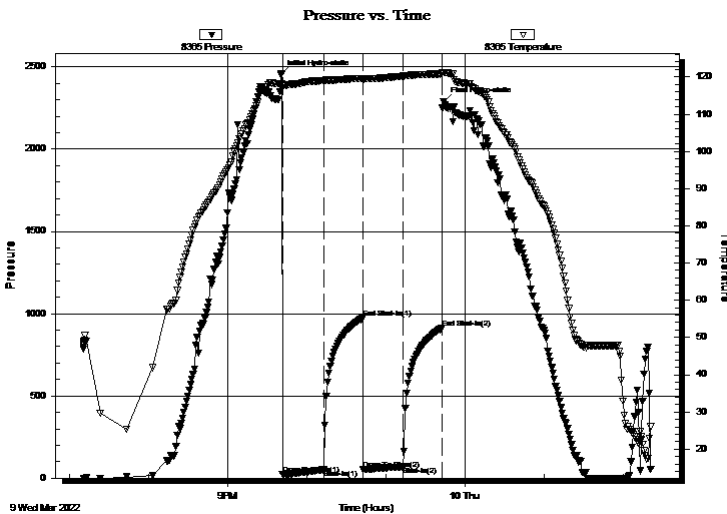
**Serial #: 8365**

**Outside**

Press@RunDepth: 69.47 psig @ 4565.00 ft (KB) Capacity: psig  
 Start Date: 2022.03.09 End Date: 2022.03.10 Last Calib.: 2022.03.09  
 Start Time: 19:11:01 End Time: 02:21:02 Time On Btm: 2022.03.09 @ 21:40:47  
 Time Off Btm: 2022.03.09 @ 23:44:02

**TEST COMMENT:** 30 min IF- WSB built to 2.5"  
 30 min IS- No returns  
 30 min FF- no blow at first, then built to 1/2"  
 30 min FSI- No returns

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2451.65	118.15	Initial Hydro-static
1	22.44	117.17	Open To Flow (1)
33	51.99	119.02	Shut-In(1)
62	973.00	119.61	End Shut-In(1)
63	51.90	119.20	Open To Flow (2)
93	69.47	120.21	Shut-In(2)
122	911.38	120.83	End Shut-In(2)
124	2287.98	121.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	100% Mud	0.44

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68229      **DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.03.10 @ 19:11:00

### GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock:      ft (KB)

Time Tool Opened: 21:41:47

Time Test Ended: 02:21:02

**Interval: 4535.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: 4528.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Poor

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

Reference Elevations: 2561.00 ft (KB)

2551.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 6752**

**Outside**

Press@RunDepth:      psig @ 4565.00 ft (KB)

Capacity:      psig

Start Date: 2022.03.09

End Date: 2022.03.10

Last Calib.: 1899.12.30

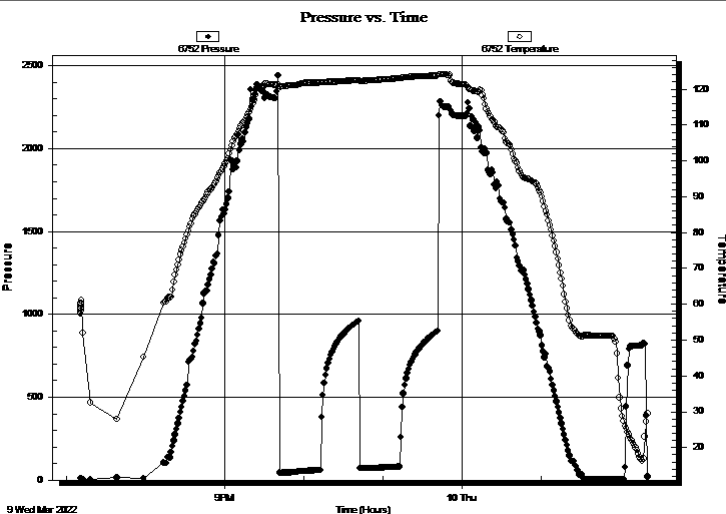
Start Time: 19:11:01

End Time: 02:21:02

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 min IF- WSB built to 2.5"  
30 min ISL- No returns  
30 min FF- no blow at first, then built to 1/2"  
30 min FSI- No returns



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
90.00	100% Mud	0.44

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**7-17s-25w Ness, KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68229

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.03.10 @ 19:11:00

## Tool Information

Drill Pipe:	Length: 4278.00 ft	Diameter: 3.80 inches	Volume: 60.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 61.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4535.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	4565.00 ft			
Interval between Packers:	30.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4513.00	
Hydraulic tool	5.00			4518.00	
Jars	5.00			4523.00	
Safety Joint	3.00			4526.00	
Packer	5.00			4531.00	27.00 Bottom Of Top Packer
Packer	4.00			4535.00	
Stubb	1.00			4536.00	
Perforations	29.00			4565.00	
Recorder	0.00	8365	Outside	4565.00	
Recorder	0.00	6752	Outside	4565.00	30.00 Tool Interval
Packer	4.00			4569.00	
Stubb	1.00			4570.00	
Change Over Sub	1.00			4571.00	
Drill Pipe	31.00			4602.00	
Change Over Sub	1.00			4603.00	
Perforations	4.00			4607.00	
Recorder	0.00	6755		4607.00	
Bullnose	3.00			4610.00	45.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68229

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.03.10 @ 19:11:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	100% Mud	0.443

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

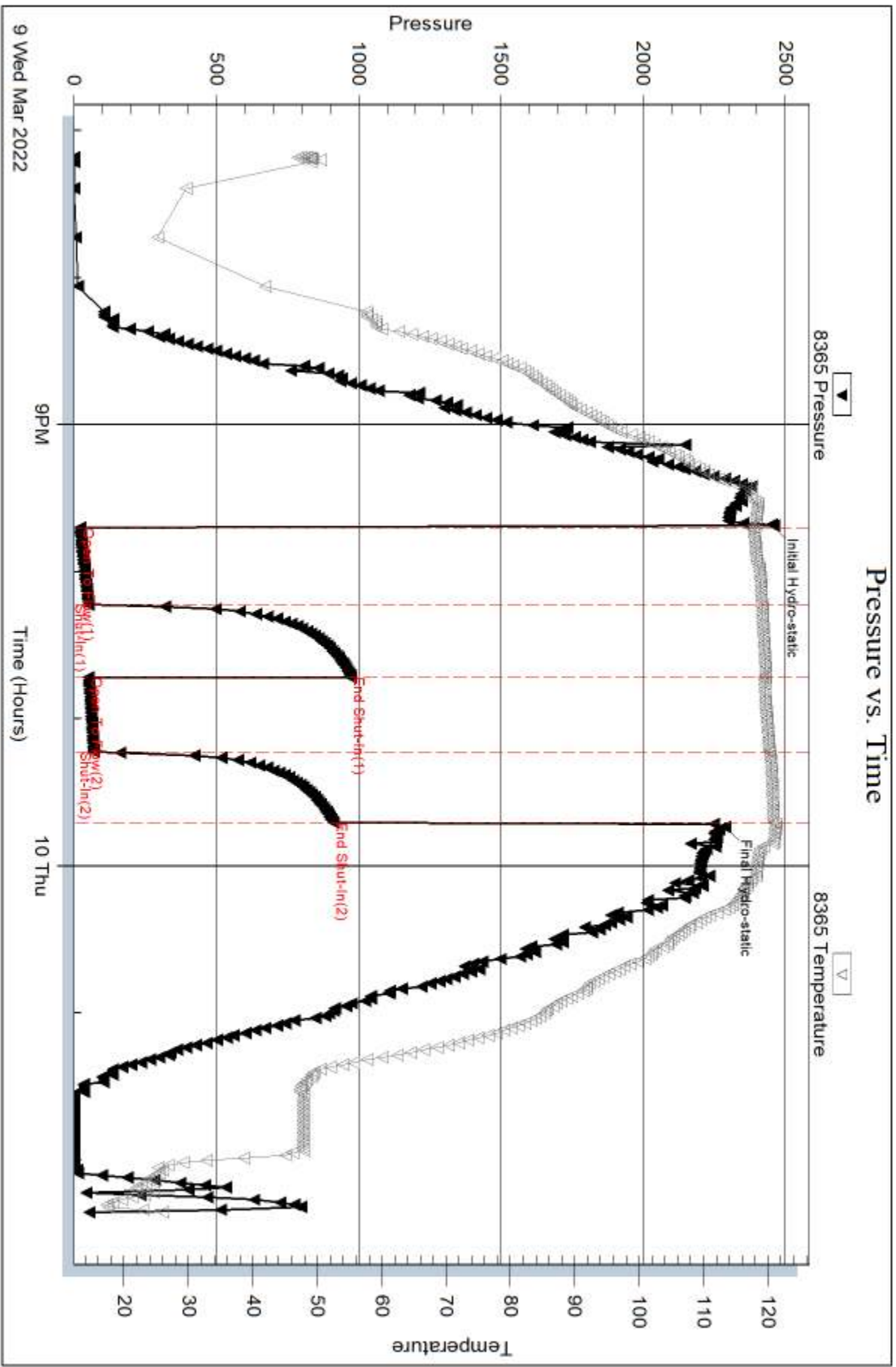
Recovery Comments: 1# LCM

Serial #: 8365

Outside Palomino Petroleum

Slutz Unit #2

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68229

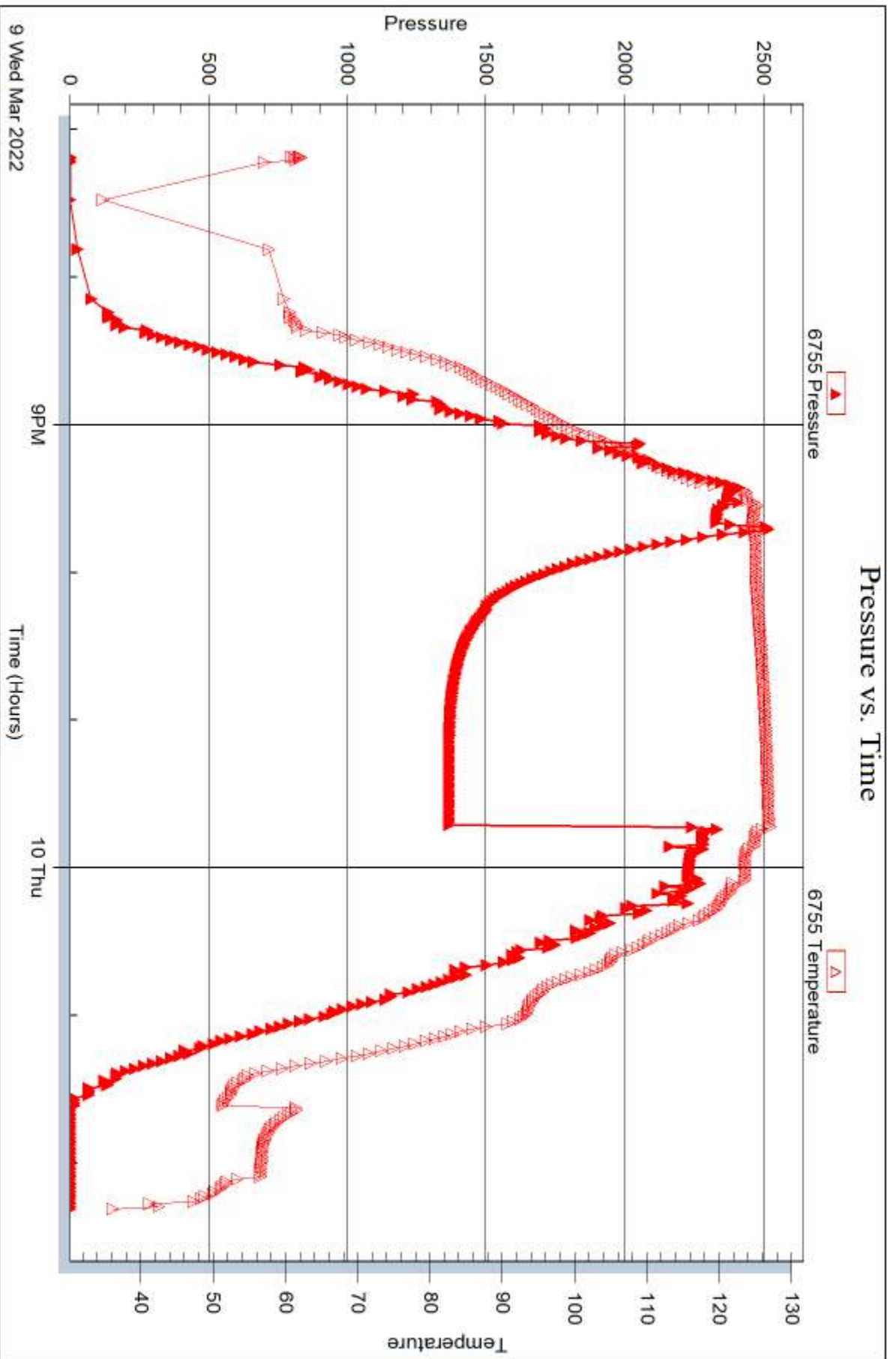
Printed: 2022.03.11 @ 12:04:57

Serial #: 6755

Palomino Petroleum

Slutz Unit #2

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68229

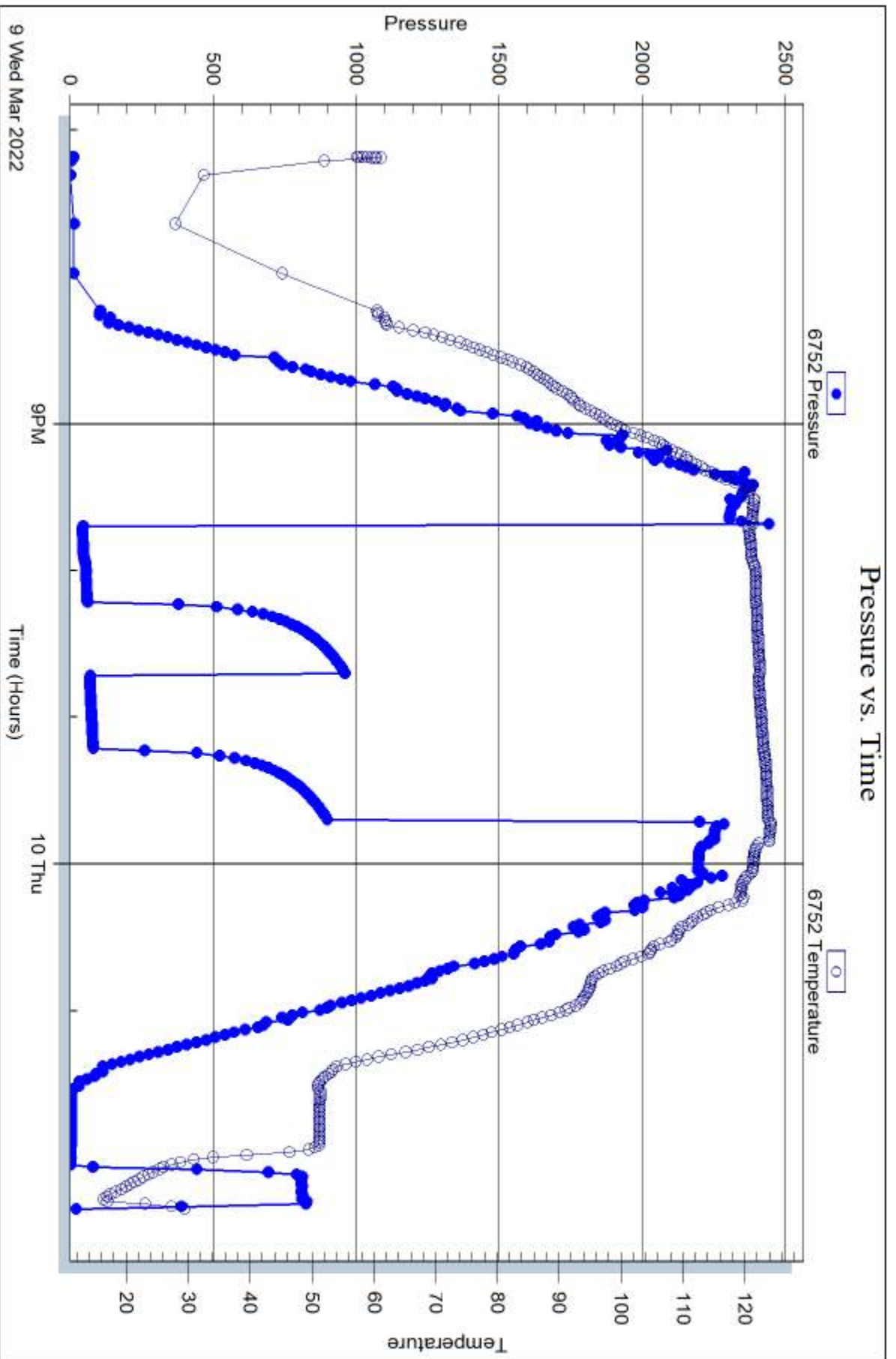
Printed: 2022.03.11 @ 12:04:58

Serial #: 6752

Outside Palomino Petroleum

Stutz Unit #2

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 68229

Printed: 2022.03.11 @ 12:04:58



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84 St  
Newton, KS 67114

ATTN: Ryan Seib

### **Stutz Unit #2**

### **7-17s-25w Ness,KS**

Start Date: 2022.03.10 @ 02:48:00

End Date: 2022.03.10 @ 10:42:02

Job Ticket #: 68230                      DST #: 5

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

Printed: 2022.03.11 @ 12:04:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness, KS**

**Stutz Unit #2**

Job Ticket: 68230

**DST#: 5**

Test Start: 2022.03.10 @ 02:48:00

## GENERAL INFORMATION:

Formation: **Marmaton - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:04:47

Time Test Ended: 10:42:02

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

**Interval: 4176.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Reference Elevations: 2561.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2551.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

**Serial #: 6752**

**Outside**

Press@RunDepth: 476.68 psig @ 4425.00 ft (KB)

Capacity: psig

Start Date: 2022.03.10

End Date:

2022.03.10

Last Calib.:

2022.03.10

Start Time: 02:48:01

End Time:

10:42:02

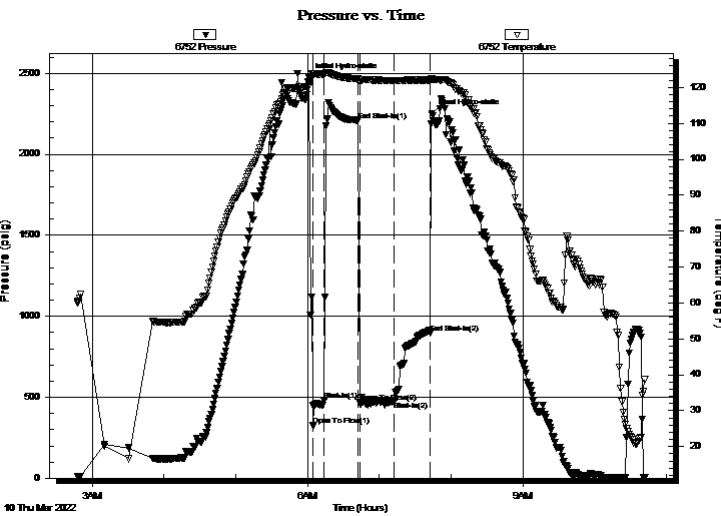
Time On Btm:

2022.03.10 @ 06:01:02

Time Off Btm:

2022.03.10 @ 07:44:02

**TEST COMMENT:** 10 min IF- BOB ASAO Packer failure, Picked up and reset packers on shut in and packers held  
 30 min ISI- No returns  
 30 min FF WSB built to 1/2"  
 30 min FSI- No returns



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2470.72	120.27	Initial Hydro-static
4	323.94	123.84	Open To Flow (1)
13	479.46	123.70	Shut-In(1)
42	2210.01	122.33	End Shut-In(1)
43	466.64	121.62	Open To Flow (2)
72	476.68	121.86	Shut-In(2)
102	898.19	122.10	End Shut-In(2)
103	2250.71	122.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
504.00	100% Mud	4.89

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**7-17s-25w Ness, KS**

**Stutz Unit #2**

Job Ticket: 68230

**DST#: 5**

Test Start: 2022.03.10 @ 02:48:00

## GENERAL INFORMATION:

Formation: **Marmaton - Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:04:47

Time Test Ended: 10:42:02

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

**Interval: 4176.00 ft (KB) To 4425.00 ft (KB) (TVD)**

Reference Elevations: 2561.00 ft (KB)

Total Depth: 4620.00 ft (KB) (TVD)

2551.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

## Serial #: 6755

Press@RunDepth: psig @ 4533.00 ft (KB)

Capacity: psig

Start Date: 2022.03.10

End Date: 2022.03.10

Last Calib.: 2022.03.10

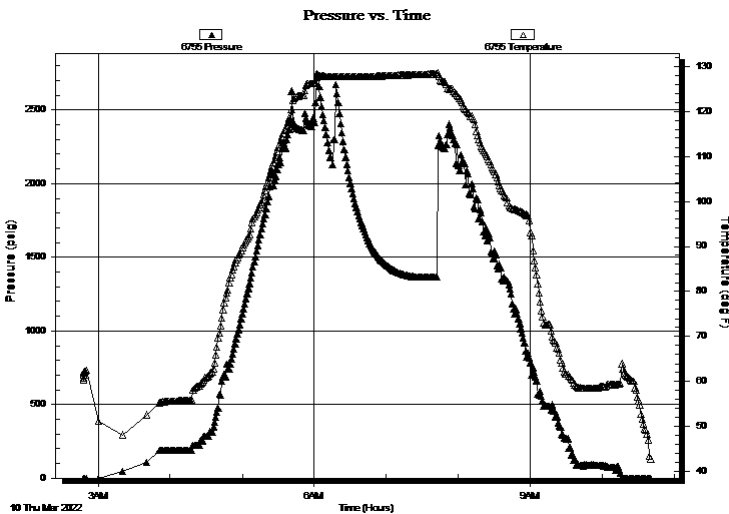
Start Time: 02:48:01

End Time: 10:40:02

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 10 min IF- BOB ASAO Packer failure, Picked up and reset packers on shut in and packers held  
30 min ISI- No returns  
30 min FF WSB built to 1/2"  
30 min FSI- No returns



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
504.00	100% Mud	4.89

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68230

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.03.10 @ 02:48:00

## Tool Information

Drill Pipe:	Length: 3914.00 ft	Diameter: 3.80 inches	Volume: 54.90 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 239.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 56.08 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4176.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	4425.00 ft			
Interval between Packers:	249.00 ft			
Tool Length:	387.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Shut In Tool	5.00			4154.00	
Hydraulic tool	5.00			4159.00	
Jars	5.00			4164.00	
Safety Joint	3.00			4167.00	
Packer	5.00			4172.00	27.00 Bottom Of Top Packer
Packer	4.00			4176.00	
Stubb	1.00			4177.00	
Perforations	16.00			4193.00	
Change Over Sub	1.00			4194.00	
Drill Pipe	230.00			4424.00	
Change Over Sub	1.00			4425.00	
Recorder	0.00	8365	Outside	4425.00	
Recorder	0.00	6752	Outside	4425.00	249.00 Tool Interval
Packer	4.00			4429.00	
Stubb	1.00			4430.00	
Change Over Sub	1.00			4431.00	
Drill Pipe	93.00			4524.00	
Change Over Sub	1.00			4525.00	
Perforations	8.00			4533.00	
Recorder	0.00	6755		4533.00	
Bullnose	3.00			4536.00	111.00 Bottom Packers & Anchor

**Total Tool Length: 387.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**7-17s-25w Ness,KS**

4924 SE 84 St  
New ton, KS 67114

**Stutz Unit #2**

Job Ticket: 68230

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.03.10 @ 02:48:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 54.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
504.00	100% Mud	4.893

Total Length: 504.00 ft      Total Volume: 4.893 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

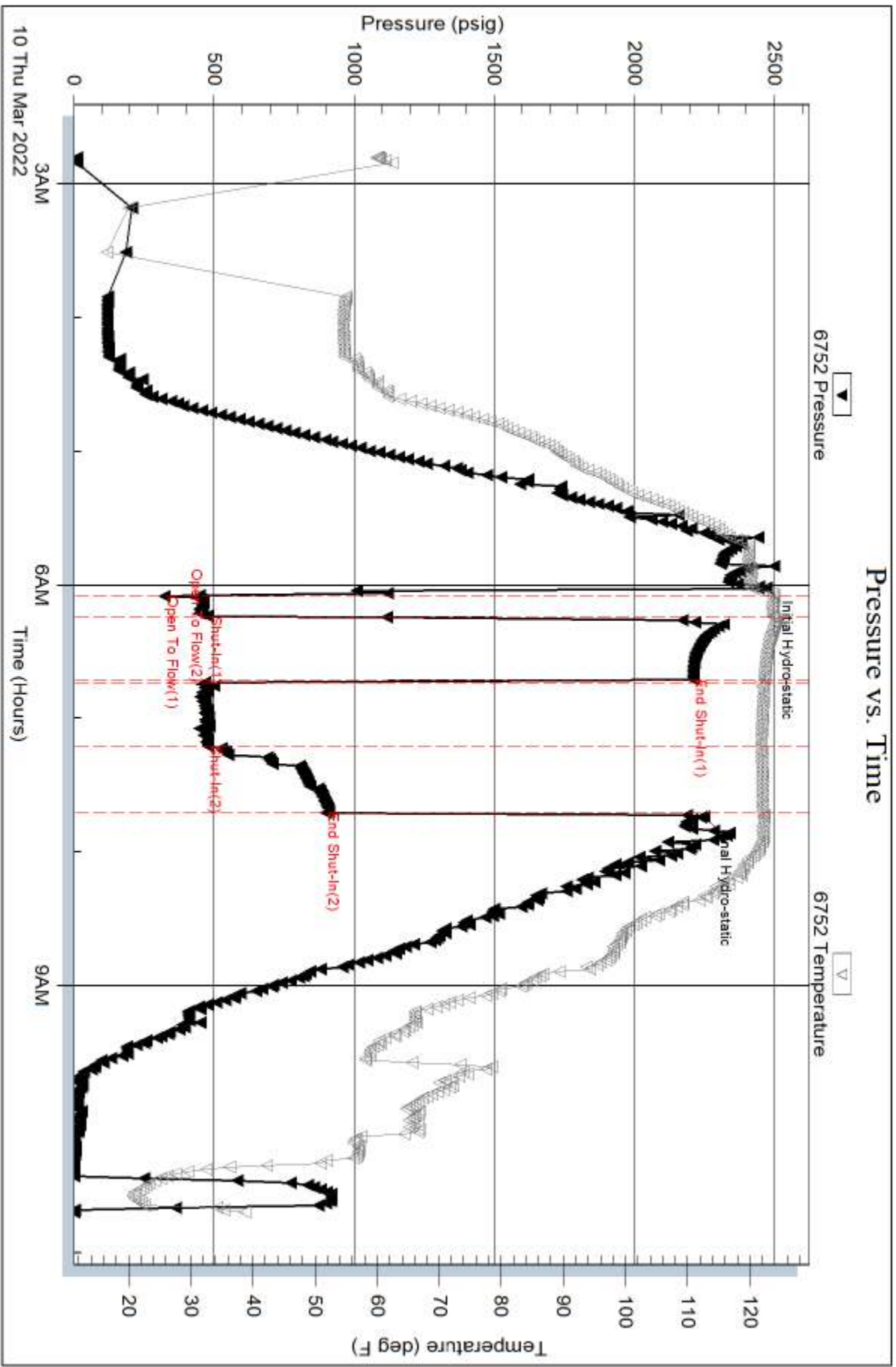
Recovery Comments: 1#LCM

Serial #: 6752

Outside Palomino Petroleum

Stutz Unit #2

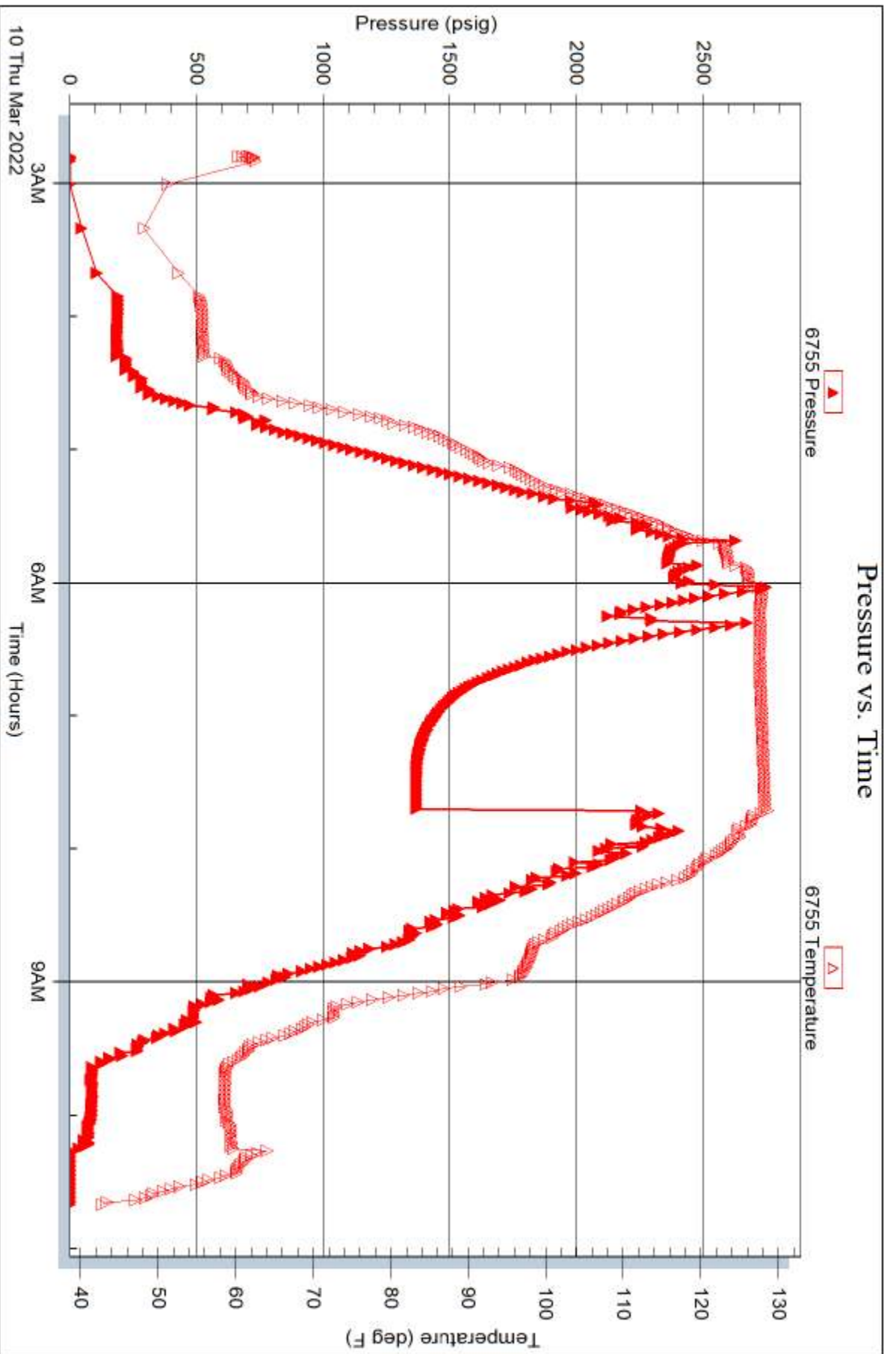
DST Test Number: 5

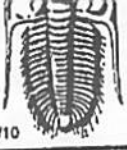


Triobite Testing, Inc

Ref. No: 68230

Printed: 2022.03.11 @ 12:04:27





# TRITOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 68226

Well Name & No. STAT UNIT #2 Test No. 1 Date 3/08/22  
 Company Palomina Petroleum Elevation 2561 KB 2541 GL  
 Address 4924 SE 84th ST Newton, KS 67114  
 Co. Rep / Geo. Hyatt S Ridd Rig Martin 21  
 Location: Sec. 7 Twp 17S Rge. 25W Co. Wes State KS

Interval Tested 4420 - 4528 Zone Tested MISS.  
 Anchor Length 108 Drill Pipe Run 4162 Mud Wt. 9.2  
 Top Packer Depth 4415 Drill Collars Run 239 Vis 54  
 Bottom Packer Depth 4420 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4528 Chlorides 3500 ppm System LCM 1 #

Blow Description EF-WSB, bu"1" to 2.25"

2EF-WSB  
EF-WSB dics in 11 min  
ESF-NO returns

Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic \_\_\_\_\_
- (B) First Initial Flow \_\_\_\_\_
- (C) First Final Flow \_\_\_\_\_
- (D) Initial Shut-In \_\_\_\_\_
- (E) Second Initial Flow \_\_\_\_\_
- (F) Second Final Flow \_\_\_\_\_
- (G) Final Shut-In \_\_\_\_\_
- (H) Final Hydrostatic \_\_\_\_\_

- Test 1150
  - Jars 250
  - Safety Joint 75
  - Circ Sub \_\_\_\_\_
  - Hourly Standby \_\_\_\_\_
  - Mileage 102 RT 127.50
  - Sampler \_\_\_\_\_
  - Straddle \_\_\_\_\_
  - Shale Packer \_\_\_\_\_
  - Extra Packer \_\_\_\_\_
  - Extra Recorder \_\_\_\_\_
  - Day Standby \_\_\_\_\_
  - Accessibility \_\_\_\_\_
- Sub Total 1602.50

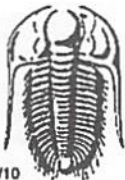
T-On Location 0130  
 T-Started 05:00  
 T-Open 08:42  
 T-Pulled 10:42  
 T-Out 014:10  
 Comments \_\_\_\_\_  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1602.50  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

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

Our Representative [Signature]

Tritobite 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. 68227

Well Name & No. STATZ UNIT #2 Test No. 2 Date 3/08/22  
 Company Palomino Petroleum Elevation 2561 KB 2551 GL  
 Address 4924 SE 94th Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig MURKIN 21  
 Location: Sec. 7 Twp 17S Rge. 25W Co. NESS State KS

Interval Tested 4420 - 4528 Zone Tested MISS  
 Anchor Length 108 Drill Pipe Run 4162 Mud Wt. 9.2  
 Top Packer Depth 4415 Drill Collars Run 239 Vis 54  
 Bottom Packer Depth 4420 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4528 Chlorides 3500 ppm System LCM 1#

Blow Description FF - WSB built to 2"  
ISI - No returns  
FP - WSB  
FSE - No returns

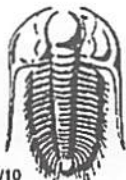
Rec	Feet of	%gas	%oil	%water	%mud
62				99	

Rec Total 62 BHT 123 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2439  Test 1450 T-On Location 14:00  
 (B) First Initial Flow 74  Jars 250 T-Started 14:13  
 (C) First Final Flow 84  Safety Joint 75 T-Open 16:05  
 (D) Initial Shut-In 654  Circ Sub \_\_\_\_\_ T-Pulled 18:08  
 (E) Second Initial Flow 86  Hourly Standby \_\_\_\_\_ T-Out 20:30  
 (F) Second Final Flow 95  Mileage 102 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 557  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2270  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Total 1775  
 Sub Total 1775 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. 68228

Well Name & No. Stutz Unit #2 Test No. 7 Date 3/09/22  
 Company Palomino Petroleum Elevation 2551 KB 2551 GL  
 Address 4924 SE 84 Newton, KS 67117  
 Co. Rep / Geo. Ryan Seib Rig MulRin 21  
 Location: Sec. 7 Twp 17S Rge. 25W Co. NESS State KS

Interval Tested 4479 - 4535 Zone Tested M1:52  
 Anchor Length 56 Drill Pipe Run ~~200~~ 4216 Mud Wt. 9.2  
 Top Packer Depth 4479 Drill Collars Run 239 Vis 54  
 Bottom Packer Depth 4535 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4620 Chlorides 7500 ppm System LCM 1#

Blow Description IF-WSB d'iced in 25 min  
ISF- No returns

FF- No blow

FSF No returns

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>VSOCM</u>		<u>1</u>		<u>44</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

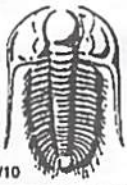
Rec Total 10 BHT 124 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2427  Test 1450 T-On Location 11:00  
 (B) First Initial Flow 38  Jars 250 T-Started ~~14:00~~ 14:00  
 (C) First Final Flow 48  Safety Joint 75 T-Open 14:20  
 (D) Initial Shut-In ~~2427~~ 2427  Circ Sub \_\_\_\_\_ T-Pulled 16:20  
 (E) Second Initial Flow ~~2427~~ 2427  Hourly Standby \_\_\_\_\_ T-Out 18:47  
 (F) Second Final Flow ~~2427~~ 2427  Mileage 102 RT 127.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 240  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2292  Straddle 600  EM Tool \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Sub Total 0  
 Sub Total 2502.50 Total 2502.50 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. 68229

Well Name & No. Stutz unit #2 Test No. 4 Date 7/29/22  
 Company Palmina Petroleum Elevation 2561 KB 2551 GL  
 Address 4924 SE 84th Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig MURKIN 21  
 Location: Sec. 7 Twp 17S Rge. 25E Co. 14-55 State KS

Interval Tested 4535-4565 Zone Tested MISS  
 Anchor Length 70 Drill Pipe Run 4278 Mud Wt. 9.2  
 Top Packer Depth 4535 Drill Collars Run 239 Vis 54  
 Bottom Packer Depth 4565 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4620 Chlorides 3500 ppm System LCM 1#

Blow Description IF - w/ sh built to 2.9"  
ISE - NO RETURNS  
FF - No blow at first, then built to 1/2"  
PSF - NO RETURNS

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total \_\_\_\_\_ BHT 127 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2451  Test 1450 T-On Location 1845  
 (B) First Initial Flow 22  Jars 250 T-Started 19 11  
 (C) First Final Flow 51  Safety Joint 75 T-Open 21:44  
 (D) Initial Shut-In 973  Circ Sub \_\_\_\_\_ T-Pulled 23:44  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out 02:30  
 (F) Second Final Flow 69  Mileage 102 BT Comments \_\_\_\_\_  
 (G) Final Shut-In 911  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2287  Straddle 600

Initial Open 30  Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Sub Total 2375  Accessibility \_\_\_\_\_ Sub Total 0  
 Total 2375 MP/DST Disc't \_\_\_\_\_

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

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Well Name & No. Stat 2 unit #2 Test No. 5 Date 3/10/27  
 Company Palmiro Petroleum Elevation 2561 KB 2451 GL  
 Address 4924 9E 84th St Newton KS 67114  
 Co. Rep / Geo. Ryan Seib Rig MURPHY 21  
 Location: Sec. 7 Twp 17 Rge. 25W Co. NESS State KS

Interval Tested 4176 - 4425 Zone Tested Marmaton - Ft Scott  
 Anchor Length 249 Drill Pipe Run 3914 Mud Wt. 9.2  
 Top Packer Depth 4176 Drill Collars Run 239 Vis 54  
 Bottom Packer Depth 4425 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4620 Chlorides 3500 ppm System LCM 1 FF

Blow Description IF - bob asad packer failure picked up and reset  
IGI - on shut in and packers held  
FF - wsb built to 1/2"  
FSE - No repairs

Rec	Feet of	%gas	%oil	%water	%mud
504	mud			100	

Rec Total 504 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2470  Test 1450 T-On Location 02:30  
 (B) First Initial Flow 323  Jars 250 T-Started 02:48  
 (C) First Final Flow 479  Safety Joint 75 T-Open 6:03  
 (D) Initial Shut-In 2210  Circ Sub \_\_\_\_\_ T-Pulled 7:43  
 (E) Second Initial Flow 466  Hourly Standby \_\_\_\_\_ T-Out 10:45  
 (F) Second Final Flow 476  Mileage 102 RT Comments \_\_\_\_\_  
 (G) Final Shut-In 898  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2250  Straddle 600  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2375  
 Sub Total 2375 MP/DST Disc't \_\_\_\_\_

Initial Open 10  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

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.





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: 3/4/2022  
 Invoice #: 0359239  
 Lease Name: Stutz Unit  
 Well #: 2  
 County: Ness, Ks  
 Job Number: WP2482  
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	200.000	18.400	3,680.00
Light Eq Mileage	80.000	2.000	160.00
Heavy Eq Mileage	80.000	4.000	320.00
Ton Mileage	752.000	1.500	1,128.00
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Blending & Mixing	200.000	1.288	257.60

**Total** 6,465.60

**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 #	Stutz Unit #2		Date	3/4/2022	
Service District	Oakley KS	County & State	Ness KS	Legals S/T/R	7-17S-25W	Job #	
Job Type	Surface	<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-2482

Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures			
78	Jesse J	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
230	Michael R	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
242	Charles D	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input checked="" type="checkbox"/> Specific Job Sequence/Expectations
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input checked="" type="checkbox"/> Hearing Protection	<input type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	
<b>Comments</b>					

Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount
CP015	H-325	sack	200.00	\$3,680.00
M015	Light Equipment Mileage	mi	80.00	\$160.00
M010	Heavy Equipment Mileage	mi	80.00	\$320.00
M020	Ton Mileage	tm	752.00	\$1,128.00
D010	Depth Charge: 0'-500'	job	1.00	\$920.00
C060	Cement Blending & Mixing Service	sack	200.00	\$257.60

Customer Section: On the following scale how would you rate Hurricane Services Inc.?			Net:	\$6,465.60
Based on this job, how likely is it you would recommend HSI to a colleague?			Total Taxable	\$ -
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely			Tax Rate:	
			Sale Tax:	\$ -
			Total:	\$ 6,465.60
			HSI Representative:	<i>Jesse Jones</i>

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 ½% 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:** Stutz Unit #2

**Ticket:** WP-2482

**City, State:** Oakley KS

**County:** Ness KS

**Date:** 3/4/2022

**Field Rep:** Juan

**S-T-R:** 7-17S-25W

**Service:** Surface

<b>Downhole Information</b>		<b>Calculated Slurry - Lead</b>		<b>Calculated Slurry - Tail</b>	
<b>Hole Size:</b>	12 1/4 in	<b>Blend:</b>	H-325	<b>Blend:</b>	
<b>Hole Depth:</b>	220 ft	<b>Weight:</b>	14.8 ppg	<b>Weight:</b>	ppg
<b>Casing Size:</b>	8 5/8 in	<b>Water / Sx:</b>	6.9 gal / sx	<b>Water / Sx:</b>	gal / sx
<b>Casing Depth:</b>	219 ft	<b>Yield:</b>	1.41 ft <sup>3</sup> / sx	<b>Yield:</b>	ft <sup>3</sup> / sx
<b>Tubing / Liner:</b>	in	<b>Annular Bbls / Ft.:</b>	0.0735 bbs / ft.	<b>Annular Bbls / Ft.:</b>	bbs / ft.
<b>Depth:</b>	ft	<b>Depth:</b>	220 ft	<b>Depth:</b>	ft
<b>Tool / Packer:</b>		<b>Annular Volume:</b>	16.2 bbls	<b>Annular Volume:</b>	0 bbls
<b>Tool Depth:</b>	ft	<b>Excess:</b>		<b>Excess:</b>	
<b>Displacement:</b>	12.5 bbls	<b>Total Slurry:</b>	50.2 bbls	<b>Total Slurry:</b>	0.0 bbls
<b>STAGE</b>	<b>TOTAL</b>	<b>Total Sacks:</b>	200 sx	<b>Total Sacks:</b>	0 sx

TIME	RATE	PSI	BBLs	BBLs	REMARKS
11:50a			-	-	Arrival
11:55a				-	Safety meeting
12:00p				-	Rig up
2:05p				-	Circulate hole
2:10p	5.4	160.0	5.0	5.0	H2O ahead
2:12p	4.8	300.0	50.2	55.2	Mixed 200 sks @ 14.8 ppg @ 220'
2:25p	4.0	250.0	12.5	67.7	Displaced H2O
2:30p				67.7	Plug down
2:33p				67.7	Wash up
2:40p				67.7	Rig down
3:00p				67.7	Depart location

CREW		UNIT	SUMMARY		
Cementer:	Jesse J	78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Michael R	230	4.7 bpm	237 psi	68 bbls
Bulk #1:	Charles D	242			
Bulk #2:					