

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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**Ryan Self**  
Petroleum Geologist

Mapes City, KS 67230 (785) 798-3323

**Geological Name**  
Palominos Petroleum, Inc.

**Field**  
Lime/1st #1

**Location**  
663 FSL & 353 FSL

**Sec.**  
6

**County**  
Rush

**State**  
KS

**Oil #**  
175

**Ref.**  
200

**Driller**  
Duke Drilling Co. #2

**Well No.**  
4499/122

**Depth**  
3300'

**RTD**  
3300'

**ATO**  
3300'

**Chemical**  
15-165-2219

**Production**  
2144'

**Measurements**  
From KB

**Other**  
551' @  
426' N/A

**Notes**  
M.C.O.  
C.N.O. D.T.L.

**Hydrate**  
1322 (-1760) 1351 (-1761)  
Heebnor 3508 (-1356)  
Lansing 3548 (-1396)  
Pawnee 3909 (-1757)  
E.J. Scott 3988 (-1836)  
Chero Kea (S) 3999 (-1847)  
RTD 4499 (-1997)

**Formation**  
3509 (-1767) 3598 (-1776)  
3573 (-1741) 3988 (-1836)  
3999 (-1847) 3999 (-1847)  
3999 (-1847) 3999 (-1847)

**LEGEND**

Shale, Sandstone, Limestone, Oilstone, Chert, Dolomite

**SCALE** 1" = 100'

Depth	Drilling Time in minutes	Depth	Sample Description	Remarks, cuttings, etc.
3300			ls. fine-grained, f. x h. dense, hard, p. v. s. f. n. s.	
10				
20				
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40				
50				
60			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
70				
80				
90			ls., AA	
3400				
10				
20			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
30				
40				
50			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
60				
70				
80			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
90				
3500				
10			sh., blk carb	
20			sh., gray blk	
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40				
50			sh., gray-red	
60			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
70				
80			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
90				
3600				
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20				
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40				
50			ls., AA	
60				
70			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
80				
90			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
3700				
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20				
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40				
50			ls., AA	
60				
70			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
80				
90			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
3800				
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20				
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40				
50			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
60				
70			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
80				
90			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
3900				
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
30			ls., AA	
40			ch. v. s. (p. orange), cryptoxyl.	
50			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
60			ch., AA	
70			ls., AA	
80			ch., AA	
90			sh., blk carb, v. s. (p. orange), cryptoxyl.	
4000			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
30			ls., AA	
40			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
50			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
60			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
70			ls., AA	
80			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
90			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
4100			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
10			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
20			ls., AA	
30			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
40			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
50			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
60			ls., AA	
70			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
80			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
90			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	
4200			ls. congl. tan. f. - x h. x large, dense, hard, p. v. s. f. n. s.	

Mud v @ 3898'

wt. - 9.0  
vis. - 5.2  
sl. - 7.0  
chl. - 5,100  
CCM - 2#

DST # 2 3996'-4005'  
30-30-30-30  
Rec. - 1' mud  
IF - Dead N. Return  
FF - Dead  
HP-1992# 1958#  
FFP-25# 21# FFP-27# 27#  
ISIP-303# FSIIP-189#  
Mud v @ 4005'  
wt. - 9.2  
vis. - 6.0+  
sl. - 6.8  
chl. - 6,800  
CCM - 1#

DST # 2 3996'-4018'  
30-30-30-30  
Rec. - 40' o.s.m. (100' o.s.m.)  
IF - 1/4" N. Return  
FF - 1/4"  
HP-196# 1906#  
FFP-20# 30# FFP-33# 40#  
ISIP-812# FSIIP-794#

DST # 3 3953'-3995'  
Mud v

DST # 4 3953'-3995'  
30-30-30-30  
Rec. - 1' m.c. (60' o.s.m., 40' o.s.m.)  
IF - 1/4" N. Return  
FF - Dead  
HP-196# 1910#  
FFP-35# 57# FFP-66# 79#  
ISIP-859# FSIIP-871#

DST # 5 3953'-4045'  
30-30-30-30  
Rec. - 160' o.s.m. (60' o.s.m., 40' o.s.m.)  
IF - 7/8" N. Return  
FF - 7/8"  
HP-1982# 1820#  
FFP-34# 64# FFP-69# 91#  
ISIP-964# FSIIP-905#





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: 6/29/2022  
 Invoice #: 0361649  
 Lease Name: Limelight  
 Well #: 1 (New)  
 County: Rush, Ks  
 Job Number: WP3007  
 District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	350.000	21.600	7,560.00
Light Eq Mileage	100.000	2.000	200.00
Heavy Eq Mileage	200.000	4.000	800.00
Ton Mileage	1,645.000	1.500	2,467.50
Depth Charge 0'-500'	1.000	960.000	960.00
Cement Blending & Mixing	350.000	1.344	470.40
Service Supervisor	1.000	264.000	264.00

**Total** 12,721.90

**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!**









416 Main Street  
 P.O. Box 225  
 Victoria, KS 67671

Office (785) 639-3949  
 24 Hour Service Line (785) 639-7269

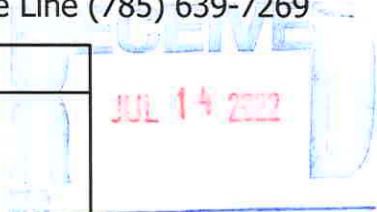
# Invoice

Date	Invoice #
7/6/2022	0637

Please Pay from this Invoice.  
 Remit Payment to:  
 416 Main Street PO BOX 225  
 Victoria, KS 67671  
 Billing Questions-Call Tianna at  
 (785) 639-3949  
 Email: franksoilfield@yahoo.com

KCC License Number  
 35469

Bill To
Palomino Petroleum, Inc 4924 SE 84th St Newton, KS 67114-8827



County/State	Lease/Well#	Terms	Job Type
Rush County, KS	Limelight #1	Net 30	PTA

Description	Quantity	Rate	Amount
Pump Charge	1	1,500.00	1,500.00
Mileage	65	6.50	422.50
9.79 tons at 65 miles	636.35	1.50	954.53
60/40 4% gel 1/4# floseal	220	16.75	3,685.00
Discount		-656.20	-656.20

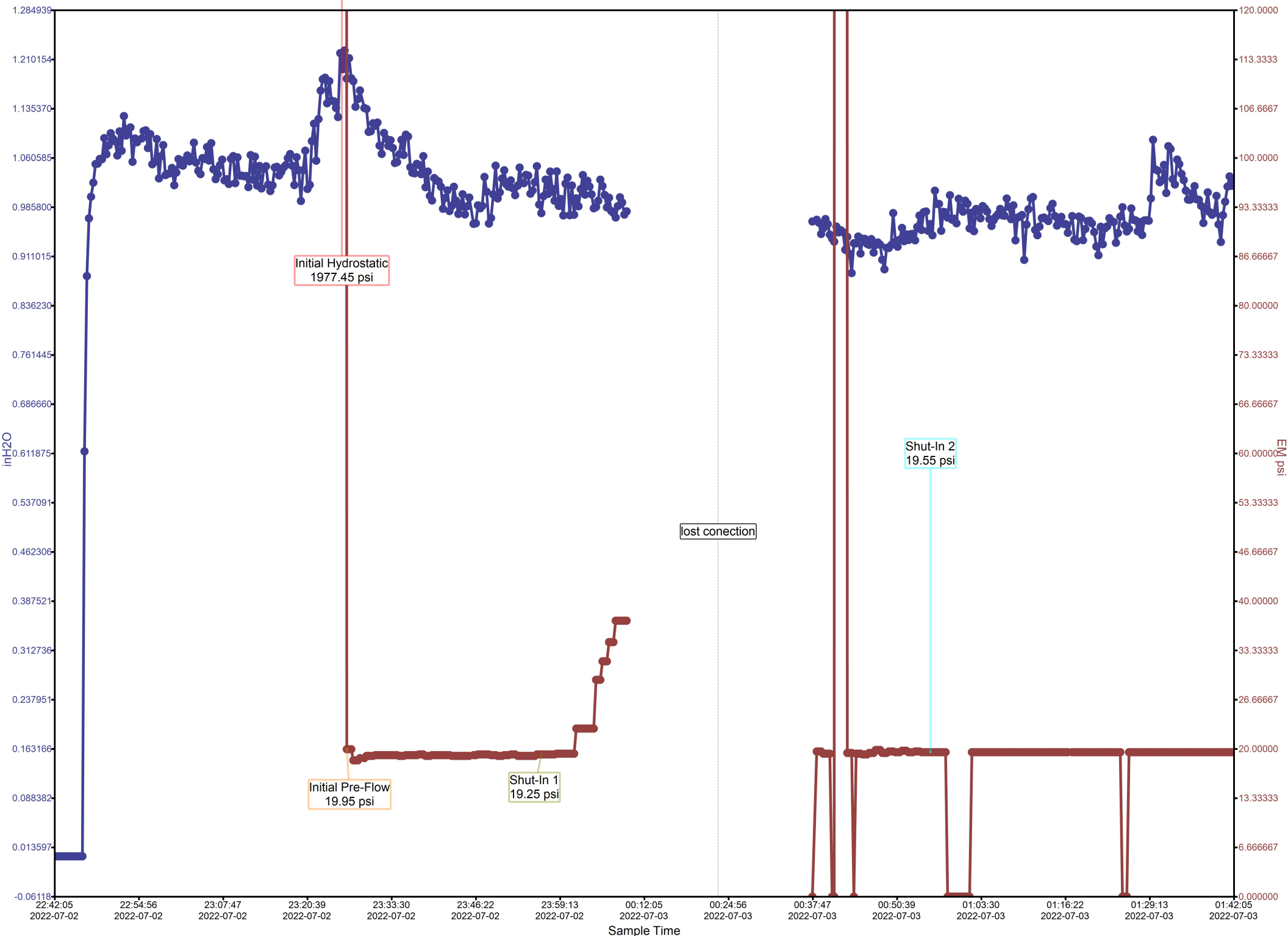
*Thank you!*

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.

*We appreciate your business and look forward to serving you again!*

<b>Subtotal</b>	\$5,905.83
<b>Sales Tax (6.5%)</b>	\$215.57
<b>Balance Due</b>	\$6,121.40

# Palomino Petroleum - Limelight 1 - DST #1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59516

**DST#: 1**

Test Start: 2022.07.02 @ 20:45:00

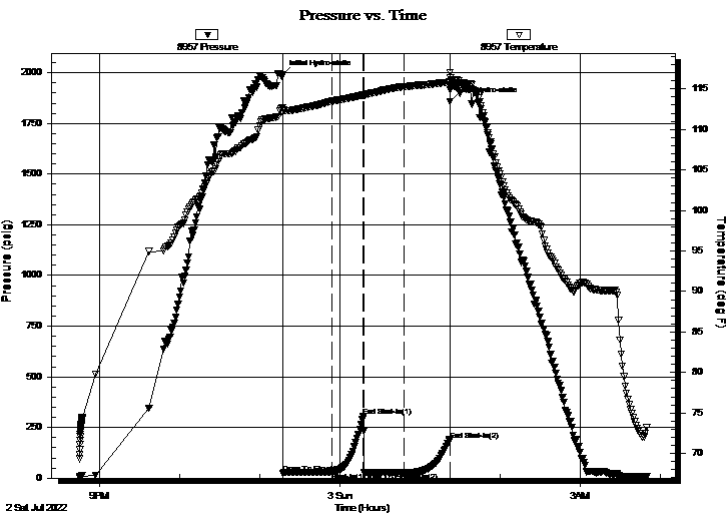
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:17:15  
 Time Test Ended: 03:50:30  
 Interval: **3996.00 ft (KB) To 4005.00 ft (KB) (TVD)**  
 Total Depth: 4005.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8957

Press@RunDepth: 26.57 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.02 End Date: 2022.07.03 Last Calib.: 2022.07.03  
 Start Time: 20:45:01 End Time: 03:50:30 Time On Btm: 2022.07.02 @ 23:17:00  
 Time Off Btm: 2022.07.03 @ 01:22:30

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.70	112.71	Initial Hydro-static
1	24.99	112.04	Open To Flow (1)
38	30.63	113.50	Shut-In(1)
61	303.33	114.23	End Shut-In(1)
61	26.73	114.15	Open To Flow (2)
91	26.57	115.26	Shut-In(2)
126	188.94	115.83	End Shut-In(2)
126	1858.61	117.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**6-17s-20w**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59516

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.015

Total Length: 1.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

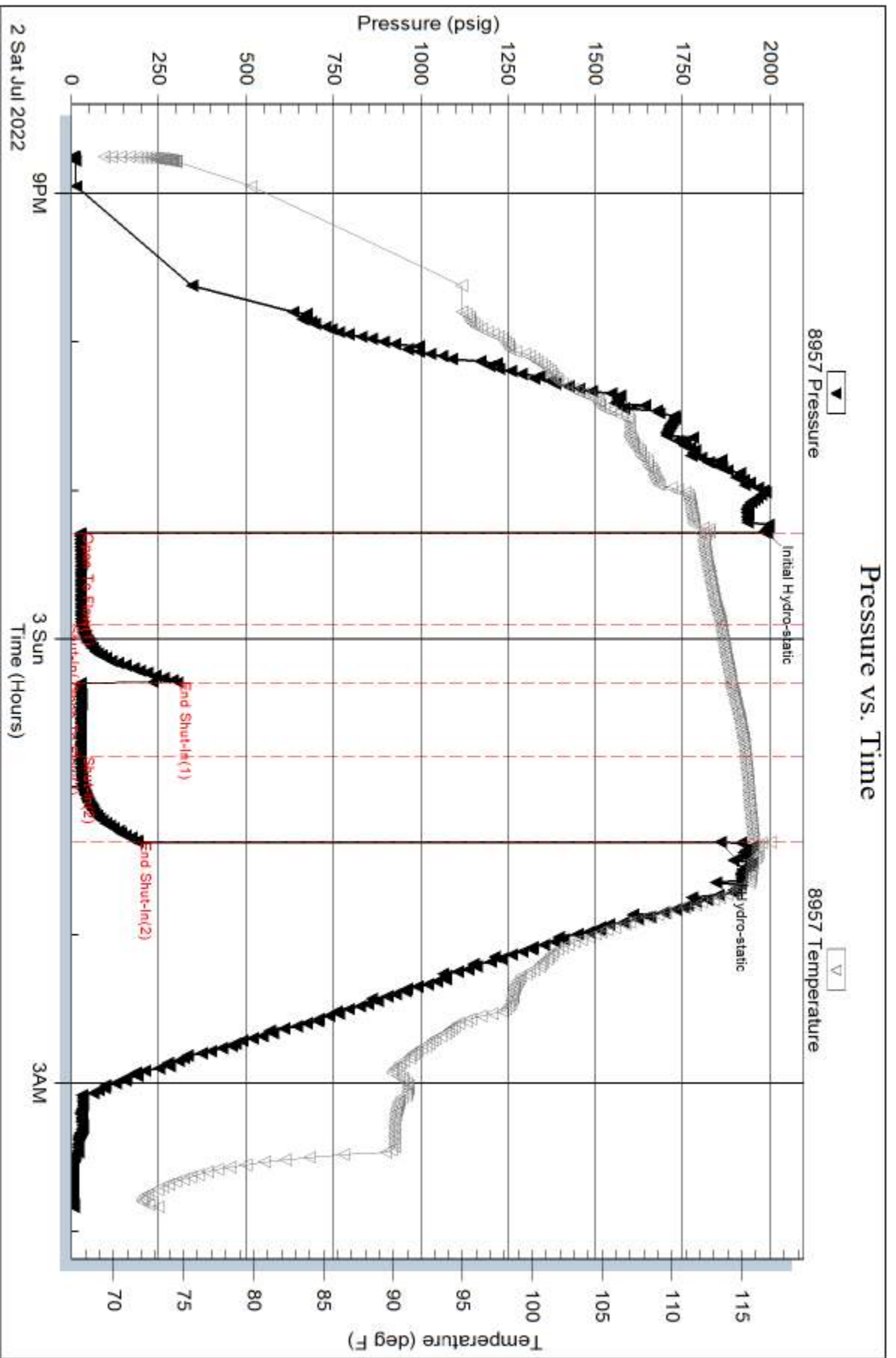
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





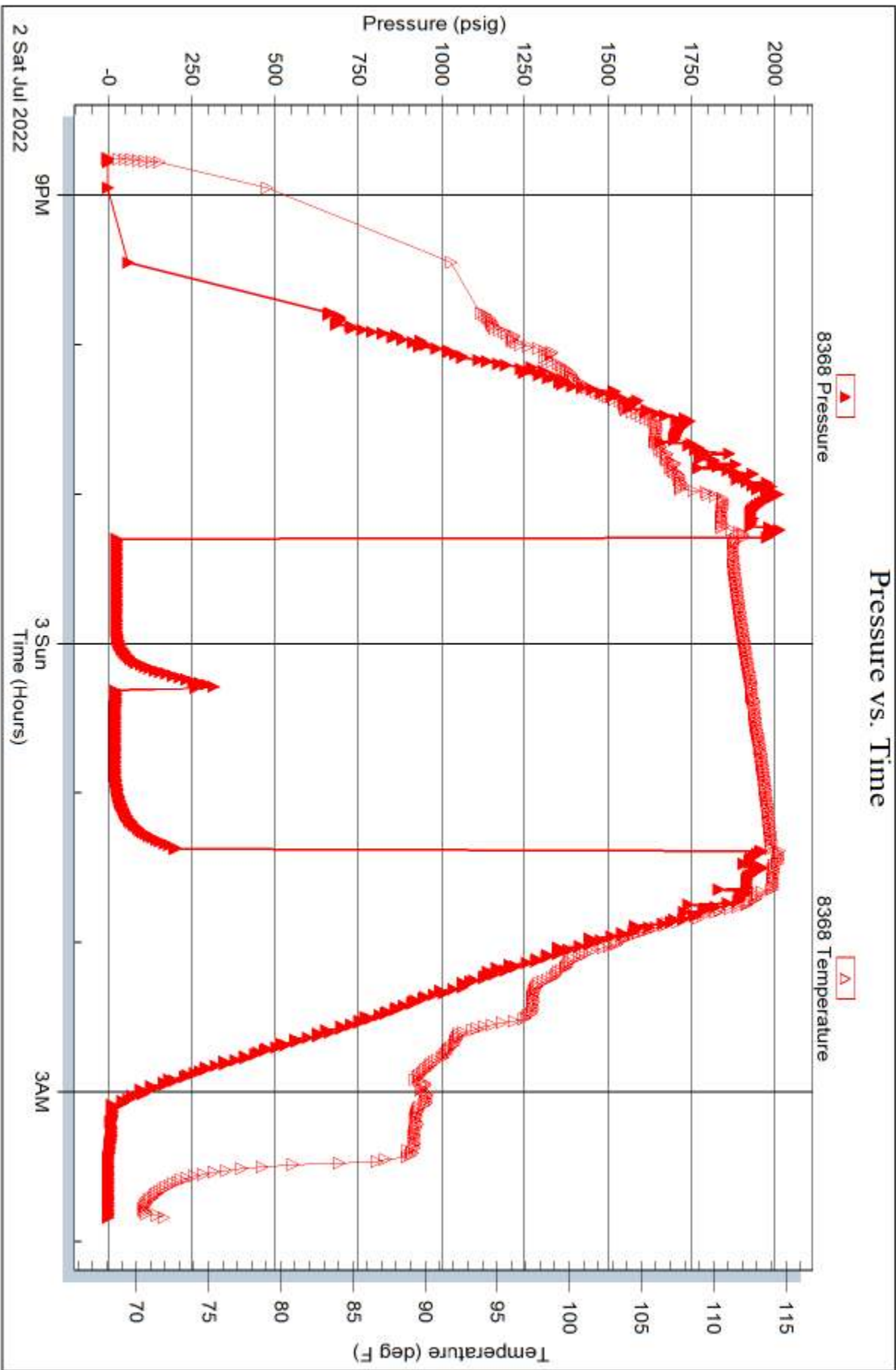
Serial #: 8368

Inside

Palomino Petroleum

Lineight #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84st  
Newton KS 67114

ATTN: Ryan Seib

### **Limelight #1**

#### **6-17s-20w Rush,KS**

Start Date: 2022.07.02 @ 20:45:00

End Date: 2022.07.03 @ 03:50:30

Job Ticket #: 59516                      DST #: 1

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

Printed: 2022.07.07 @ 11:18:42



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w Rush,KS**

**Limelight #1**

Job Ticket: 59516

**DST#: 1**

Test Start: 2022.07.02 @ 20:45:00

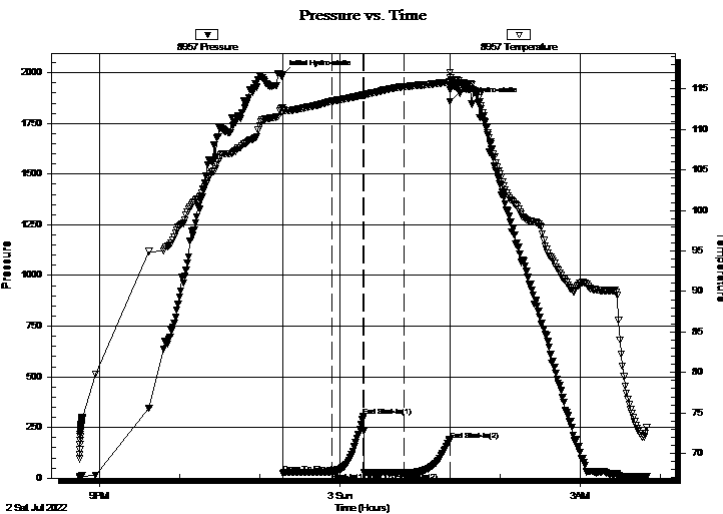
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:17:15  
 Time Test Ended: 03:50:30  
 Interval: **3996.00 ft (KB) To 4005.00 ft (KB) (TVD)**  
 Total Depth: 4005.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8957 Outside**

Press@RunDepth: 26.57 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.02 End Date: 2022.07.03 Last Calib.: 2022.07.03  
 Start Time: 20:45:01 End Time: 03:50:30 Time On Btm: 2022.07.02 @ 23:17:00  
 Time Off Btm: 2022.07.03 @ 01:22:30

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



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1991.70	112.71	Initial Hydro-static
1	24.99	112.04	Open To Flow (1)
38	30.63	113.50	Shut-In(1)
61	303.33	114.23	End Shut-In(1)
61	26.73	114.15	Open To Flow (2)
91	26.57	115.26	Shut-In(2)
126	188.94	115.83	End Shut-In(2)
126	1858.61	117.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud	0.01

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59516

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

## Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.87 inches	Volume: 58.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3996.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	40.00 ft				
Number of Packers:	2	Diameter:	inches		
Tool Comments:					

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

Change Over Sub	1.00			3966.00	
Shut In Tool	5.00			3971.00	
Hydraulic tool	5.00			3976.00	
Jars	5.00			3981.00	
EM Tool	3.00			3984.00	
Safety Joint	3.00			3987.00	
Packer	5.00			3992.00	31.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	8368	Inside	3997.00	
Recorder	0.00	8957	Outside	3997.00	
Perforations	5.00			4002.00	
Bullnose	3.00			4005.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59516

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud	0.015

Total Length: 1.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

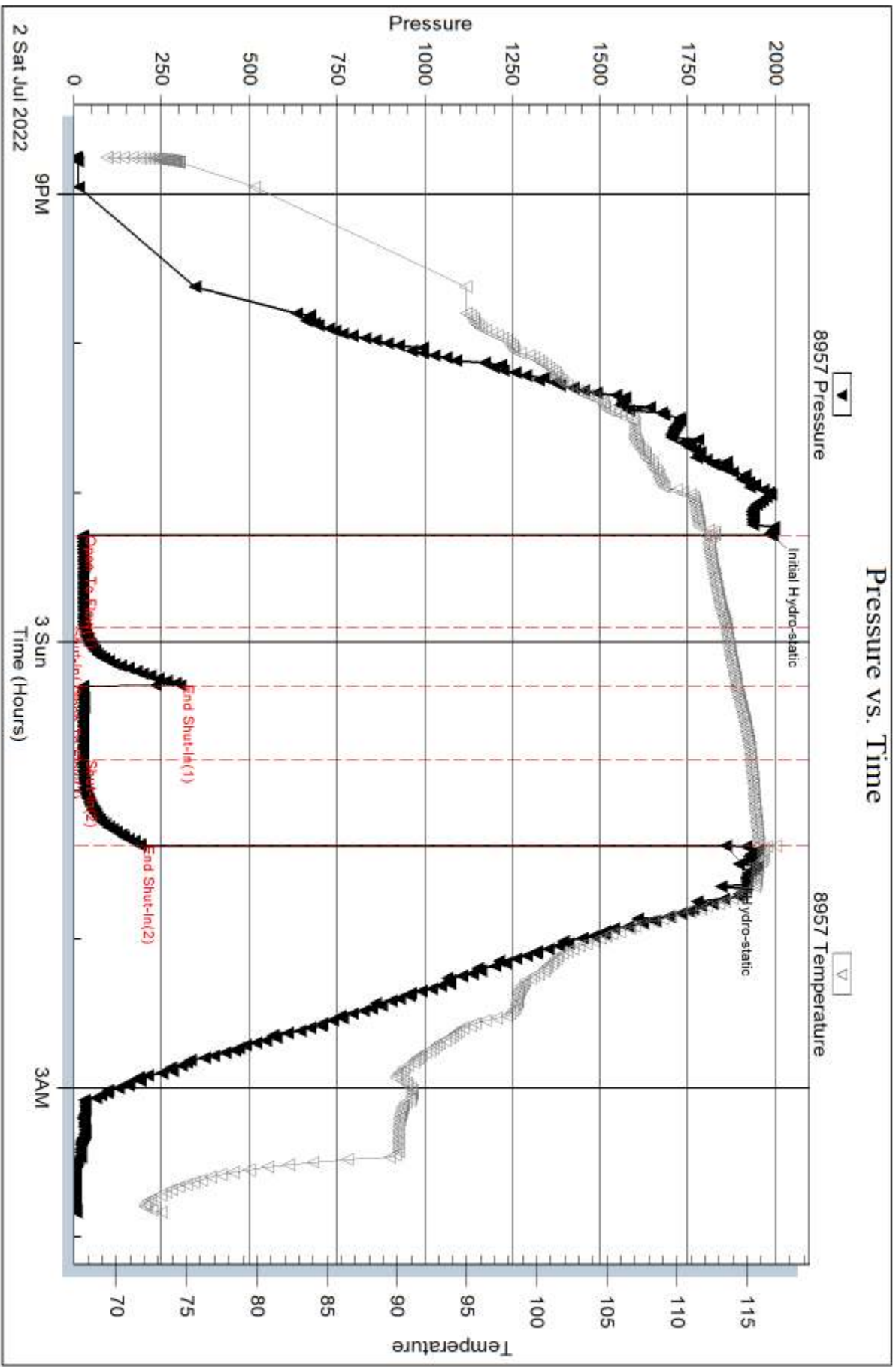
Recovery Comments:

Serial #: 8957

Outside Palomino Petroleum

Lineight #1

DST Test Number: 1



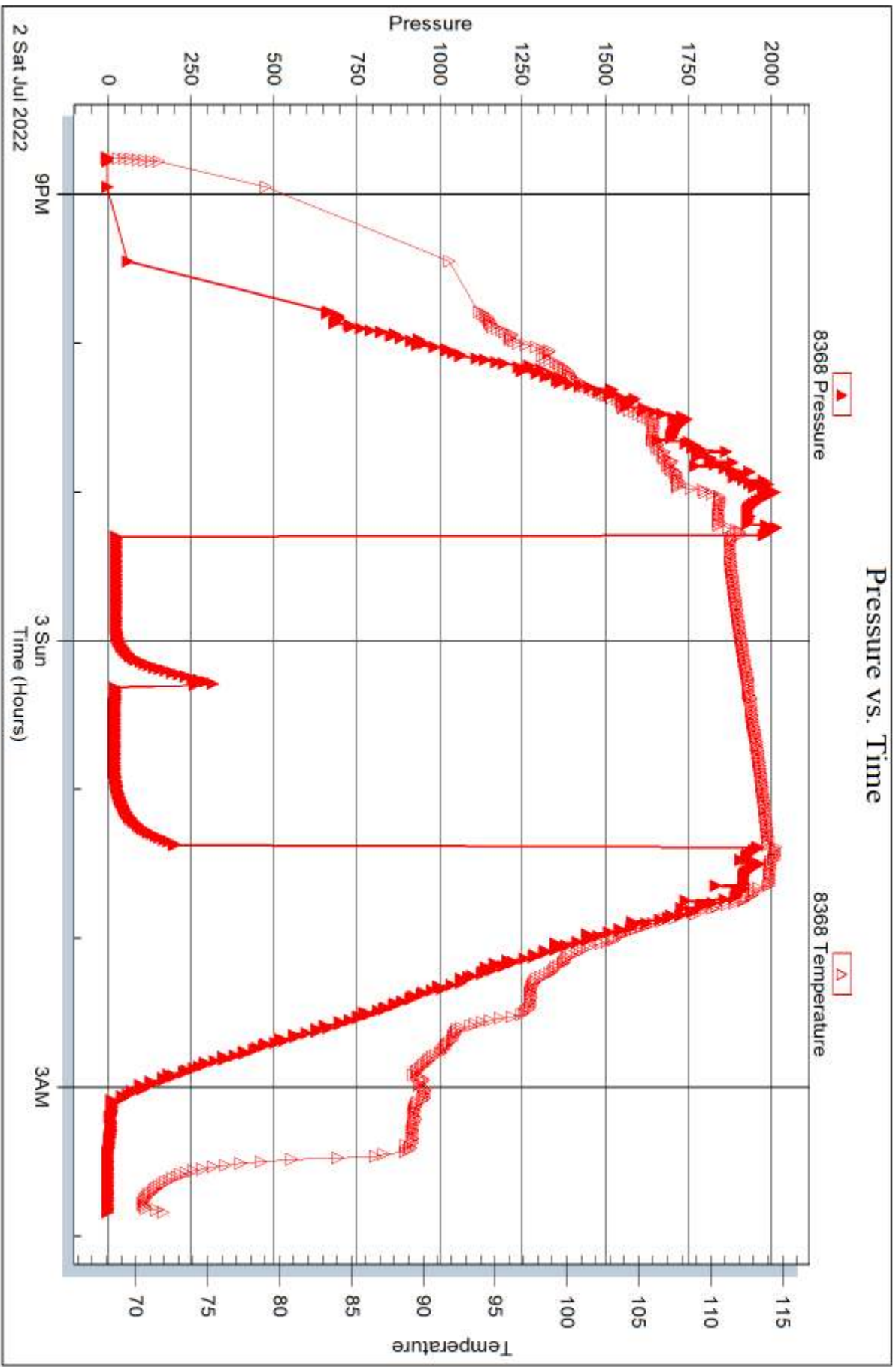
Serial #: 8368

Inside

Palomino Petroleum

Lineight #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84st  
Newton KS 67114

ATTN: Ryan Seib

### **Limelight #1**

#### **6-17s-20w Rush,KS**

Start Date: 2022.07.03 @ 11:30:00

End Date: 2022.07.03 @ 17:14:30

Job Ticket #: 59517                      DST #: 2

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

Printed: 2022.07.07 @ 11:16:48

Palomino Petroleum

6-17s-20w Rush,KS

Limelight #1

DST # 2

Cherokee Sand

2022.07.03



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w Rush,KS**

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

Test Start: 2022.07.03 @ 11:30:00

## GENERAL INFORMATION:

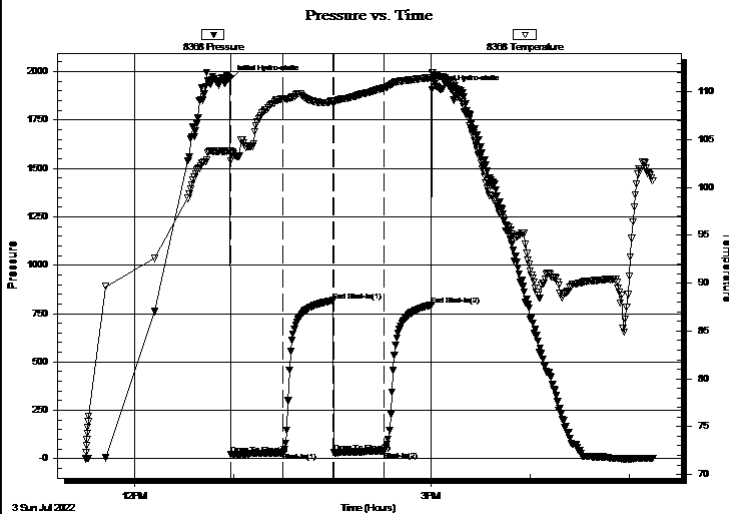
Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:58:15  
 Time Test Ended: 17:14:30  
 Interval: **3996.00 ft (KB) To 4018.00 ft (KB) (TVD)**  
 Total Depth: 4018.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8368**

**Inside**

Press@RunDepth: 39.91 psig @ 3997.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.03 End Date: 2022.07.03 Last Calib.: 2022.07.06  
 Start Time: 11:30:05 End Time: 17:14:29 Time On Btm: 2022.07.03 @ 12:58:00  
 Time Off Btm: 2022.07.03 @ 15:00:15

TEST COMMENT: IF-30-Surface blow  
 IS-30-No return  
 FF-30-Surface blow  
 FS-30-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.29	103.84	Initial Hydro-static
1	19.98	102.77	Open To Flow (1)
32	30.49	109.30	Shut-In(1)
63	817.11	109.06	End Shut-In(1)
63	32.64	108.79	Open To Flow (2)
94	39.91	110.39	Shut-In(2)
122	794.32	111.49	End Shut-In(2)
123	1906.28	111.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	oil spotted mud	0.58

## 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

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.07.03 @ 11:30:00

## Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.87 inches	Volume: 58.06 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3996.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3966.00	
Shut In Tool	5.00			3971.00	
Hydraulic tool	5.00			3976.00	
Jars	5.00			3981.00	
EM Tool	3.00			3984.00	
Safety Joint	3.00			3987.00	
Packer	5.00			3992.00	31.00 Bottom Of Top Packer
Packer	4.00			3996.00	
Stubb	1.00			3997.00	
Recorder	0.00	8368	Inside	3997.00	
Recorder	0.00	8957	Outside	3997.00	
Perforations	18.00			4015.00	
Bullnose	3.00			4018.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.07.03 @ 11:30:00

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	oil spotted mud	0.582

Total Length: 40.00 ft      Total Volume: 0.582 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

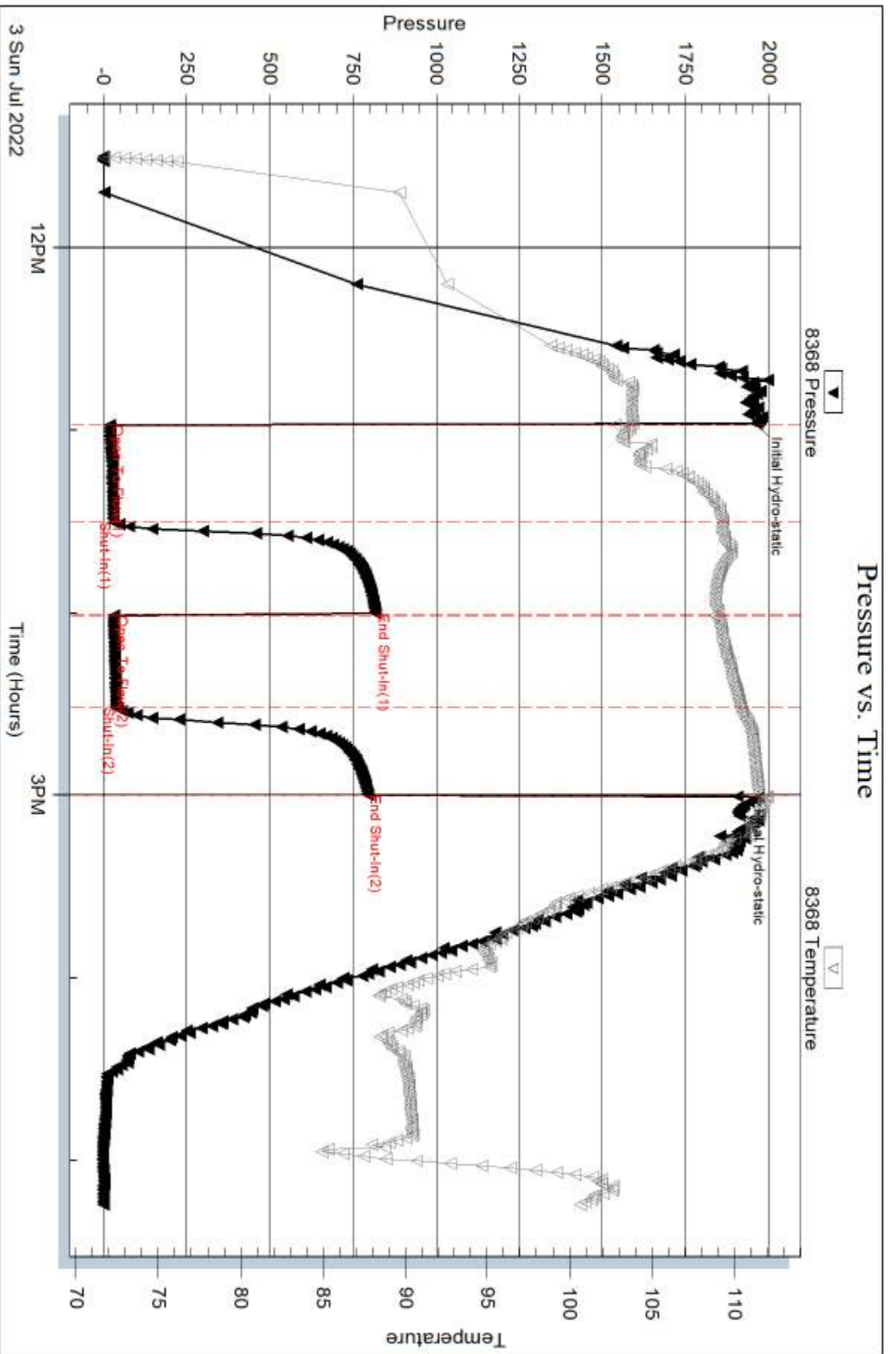
Serial #: 8368

Inside

Palomino Petroleum

Lineight #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59517

Printed: 2022.07.07 @ 11:16:50

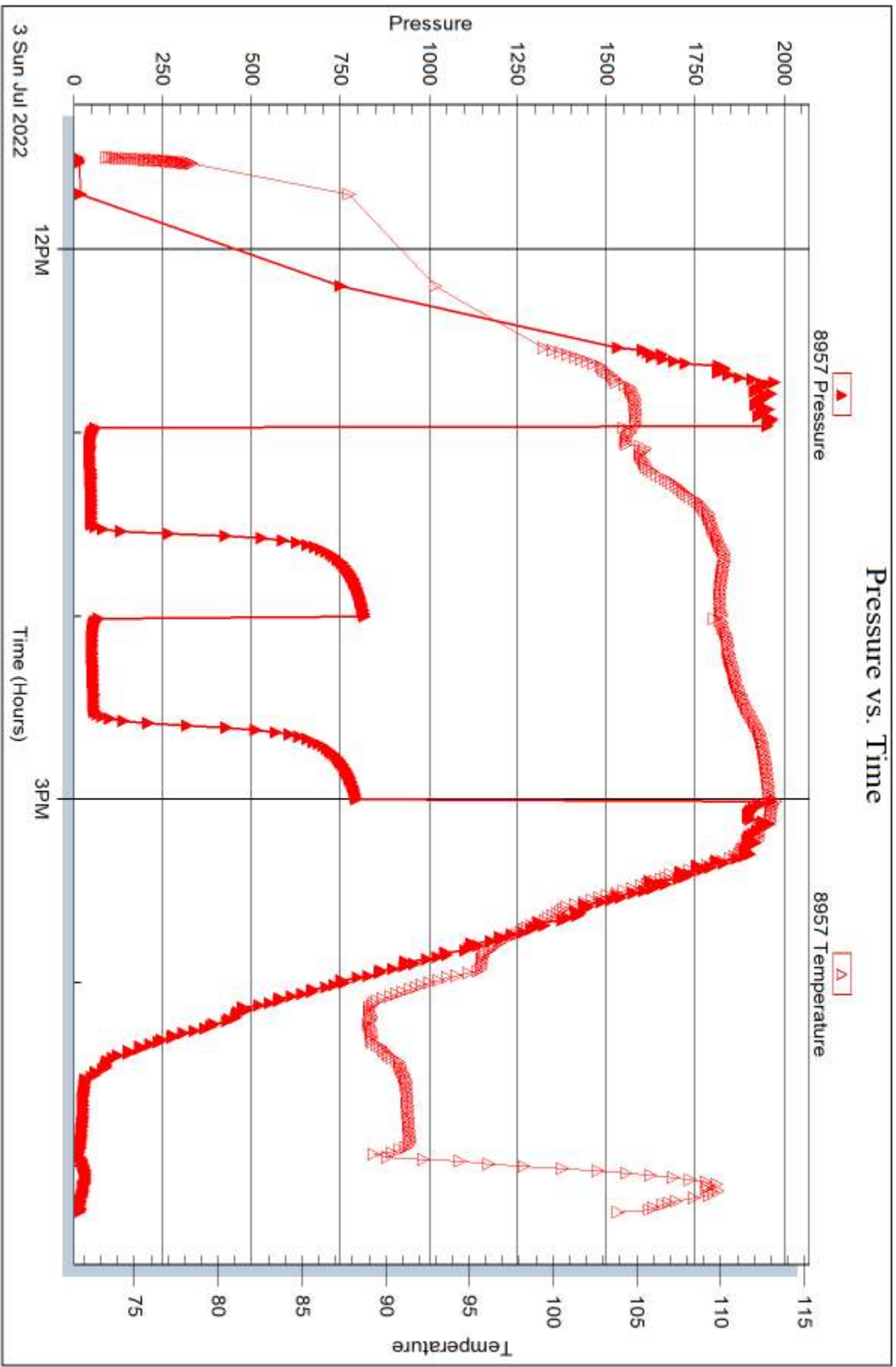


Serial #: 8957

Outside Palomino Petroleum

Lineight #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84st  
Newton KS 67114

ATTN: Ryan Seib

### **Limelight #1**

#### **6-17s-20w Rush,KS**

Start Date: 2022.07.02 @ 20:45:00

End Date:

Job Ticket #: 59518

DST #: 3

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

Printed: 2022.07.07 @ 11:14:34

Palomino Petroleum

6-17s-20w Rush,KS

Limelight #1

DST # 3

Cherokee Sand

2022.07.02



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

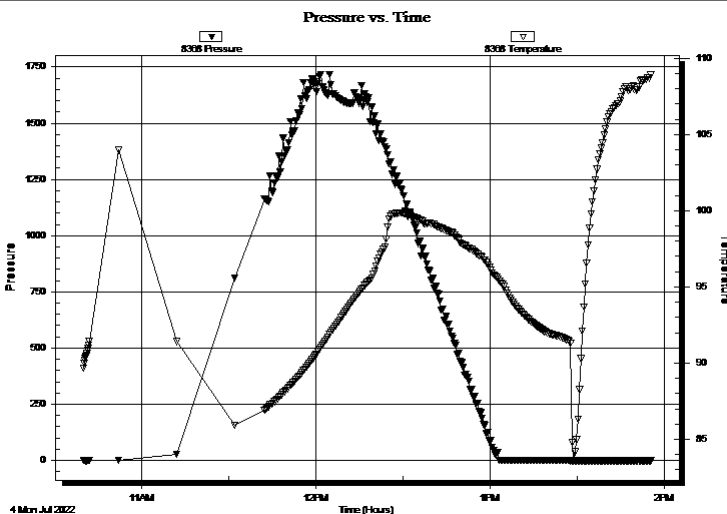
**6-17s-20w Rush,KS**  
**Limelight #1**  
Job Ticket: 59518 **DST#: 3**  
Test Start: 2022.07.02 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: Tester: Terrance  
 Time Test Ended: Unit No: 66  
 Interval: **3953.00 ft (KB) To 3995.00 ft (KB) (TVD)** Reference Elevations: 2152.00 ft (KB)  
 Total Depth: 4005.00 ft (KB) (TVD) 2144.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8368** Inside  
 Press@RunDepth: psig @ 3960.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.04 End Date: 2022.07.04 Last Calib.: 1899.12.30  
 Start Time: 10:40:05 End Time: 13:55:15 Time On Btm:  
 Time Off Btm:

TEST COMMENT: miss run



## 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)

\* Recovery from multiple tests



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

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

**6-17s-20w Rush,KS**

**Limelight #1**

Job Ticket: 59518

**DST#: 3**

Test Start: 2022.07.02 @ 20:45:00

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Straddle (Reset)

Tester: Terrance

Unit No: 66

**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Total Depth: 4005.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2152.00 ft (KB)

2144.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: psig @ 3960.00 ft (KB)

Start Date: 2022.07.04

End Date: 2022.07.04

Start Time: 10:40:05

End Time: 13:55:45

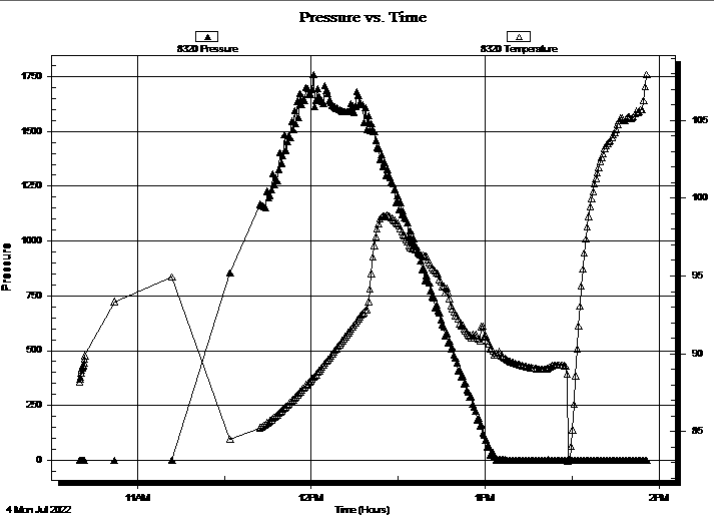
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: miss run



### 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)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

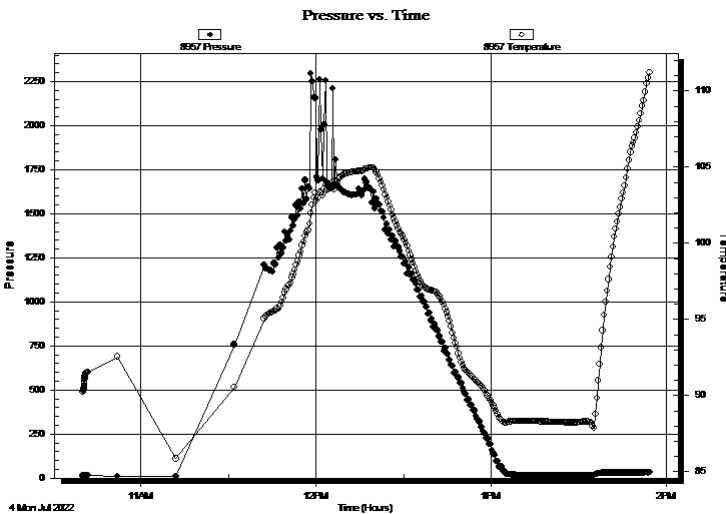
**6-17s-20w Rush,KS**  
**Limelight #1**  
 Job Ticket: 59518 **DST#: 3**  
 Test Start: 2022.07.02 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**  
 Total Depth: 4005.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8957** Fluid  
 Press@RunDepth: psig @ 4000.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.04 End Date: 2022.07.04 Last Calib.: 1899.12.30  
 Start Time: 10:40:01 End Time: 13:54:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: miss run



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)

\* 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 84st  
New ton KS 67114  
ATTN: Ryan Seib

**6-17s-20w Rush,KS**  
**Limelight #1**  
Job Ticket: 59518      **DST#: 3**  
Test Start: 2022.07.02 @ 20:45:00

**Tool Information**

Drill Pipe:	Length: 3956.00 ft	Diameter: 3.87 inches	Volume: 57.56 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			<u>Total Volume: - bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	lb
Depth to Top Packer:	3953.00 ft			Final	lb
Depth to Bottom Packer:	3995.00 ft				
Interval between Packers:	42.00 ft				
Tool Length:	228.00 ft				
Number of Packers:	2	Diameter:	inches		
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			3927.00	
Shut In Tool	5.00			3932.00	
Hydraulic tool	5.00			3937.00	
Jars	5.00			3942.00	
EM Tool	3.00			3945.00	
Safety Joint	3.00			3948.00	
Packer	5.00			3953.00	27.00 Bottom Of Top Packer
Packer - Shale	4.00			3957.00	
Stubb	1.00			3958.00	
Perforations	2.00			3960.00	
Recorder	0.00	8368	Inside	3960.00	
Recorder	0.00	8320	Outside	3960.00	
Change Over Sub	1.00			3961.00	
Drill Pipe	32.00			3993.00	
Change Over Sub	1.00			3994.00	
Blank Spacing	1.00			3995.00	42.00 Tool Interval
Packer	4.00			3999.00	
Stubb	1.00			4000.00	
Recorder	0.00	8957	Fluid	4000.00	
Perforations	27.00			4027.00	
Change Over Sub	1.00			4028.00	
Drill Pipe	126.00			4154.00	159.00 Bottom Packers & Anchor

**Total Tool Length: 228.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59518

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length:                      ft      Total Volume:                      bbl

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

Laboratory Name:                      Laboratory Location:

Recovery Comments:



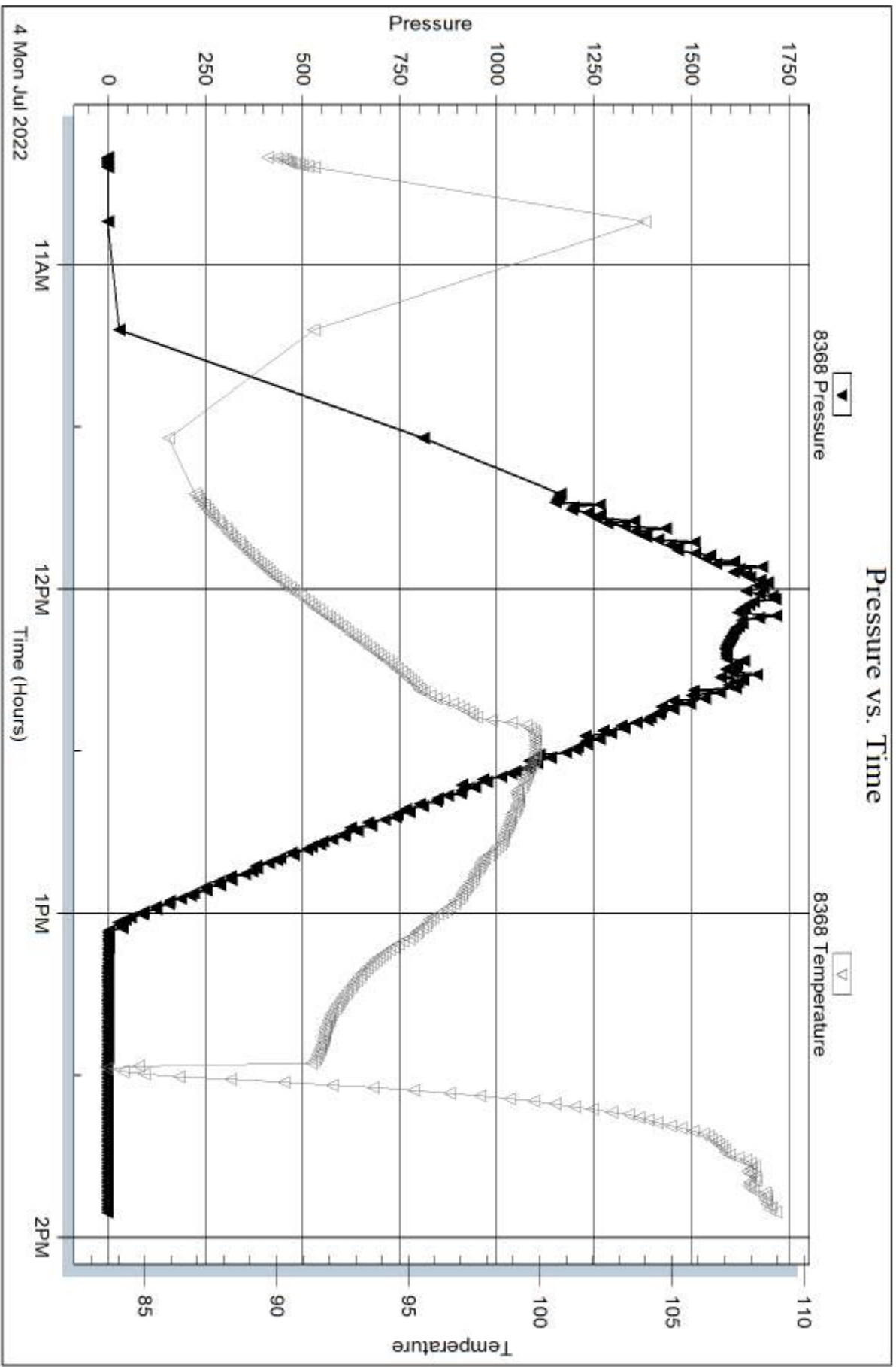
Serial #: 8368

Inside

Palomino Petroleum

Lineight #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59518

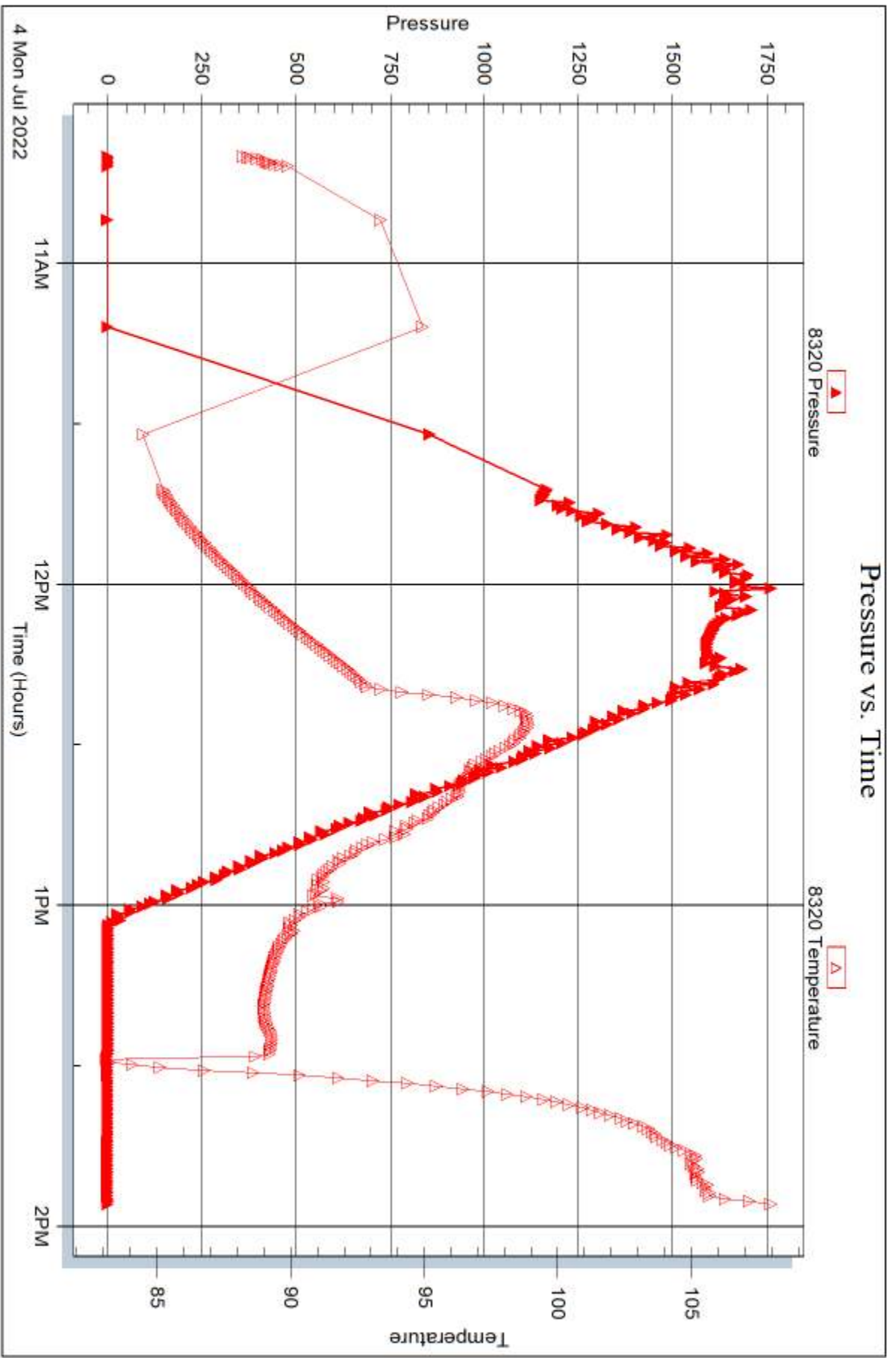
Printed: 2022.07.07 @ 11:14:35

Serial #: 8320

Outside Palomino Petroleum

Lineight #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59518

Printed: 2022.07.07 @ 11:14:35

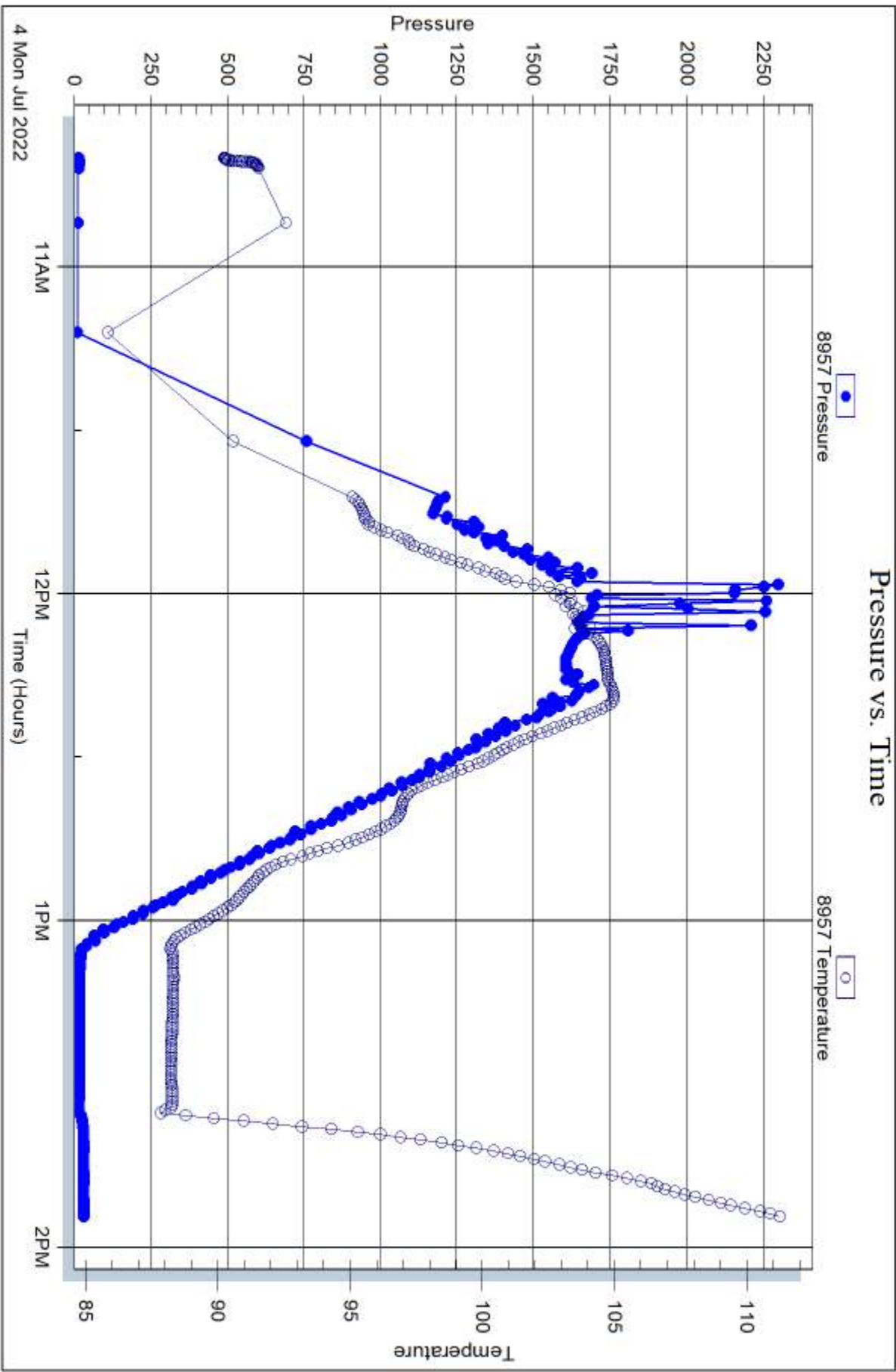
Serial #: 8957

Fluid

Palomino Petroleum

Lineight #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84st  
Newton KS 67114

ATTN: Ryan Seib

### **Limelight #1**

#### **6-17s-20w Rush,KS**

Start Date: 2022.07.04 @ 19:00:00

End Date: 2022.07.05 @ 03:42:45

Job Ticket #: 59519                      DST #: 4

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

Printed: 2022.07.07 @ 10:52:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w Rush,KS**

**Limelight #1**

Job Ticket: 59519

**DST#: 4**

Test Start: 2022.07.04 @ 19:00:00

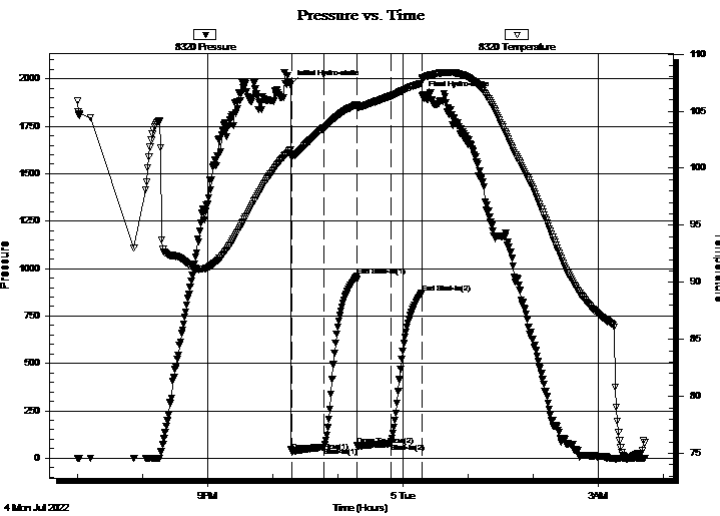
## GENERAL INFORMATION:

Formation: **Pawnee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:17:30  
 Time Test Ended: 03:42:45  
 Interval: **3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8320 Below (Straddle)**

Press@RunDepth: 78.68 psig @ 3996.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.04 End Date: 2022.07.05 Last Calib.: 2022.07.04  
 Start Time: 19:00:05 End Time: 03:42:45 Time On Btm: 2022.07.04 @ 22:16:15  
 Time Off Btm: 2022.07.05 @ 00:17:30

TEST COMMENT: IF-30-Blow built to 1/2 inch then backed off to a surface blow  
 IS-30-No return  
 FF-30-No return  
 FS-30-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.28	101.63	Initial Hydro-static
2	35.19	101.06	Open To Flow (1)
31	58.65	103.50	Shut-In(1)
62	959.35	105.59	End Shut-In(1)
62	66.04	105.36	Open To Flow (2)
93	78.68	106.31	Shut-In(2)
121	871.26	107.44	End Shut-In(2)
122	1910.48	107.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	60% mud 40% oil	0.01

\* 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 84st  
New ton KS 67114  
ATTN: Ryan Seib

**6-17s-20w Rush,KS**  
**Limelight #1**  
Job Ticket: 59519 **DST#: 4**  
Test Start: 2022.07.04 @ 19:00:00

**Tool Information**

Drill Pipe:	Length: 3935.00 ft	Diameter: 3.87 inches	Volume: 57.25 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	560.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3953.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	196.00 ft				
Tool Length:	227.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3923.00	
Shut In Tool	5.00			3928.00	
Hydraulic tool	5.00			3933.00	
Jars	5.00			3938.00	
EM Tool	3.00			3941.00	
Safety Joint	3.00			3944.00	
Packer	5.00			3949.00	31.00 Bottom Of Top Packer
Packer	4.00			3953.00	
Stubb	1.00			3954.00	
Perforations	2.00			3956.00	
Change Over Sub	1.00			3957.00	
Recorder	0.00	8368	Inside	3957.00	
Recorder	0.00	8957	Outside	3957.00	
Drill Pipe	32.00			3989.00	
Change Over Sub	1.00			3990.00	
Blank Spacing	1.00			3991.00	196.00 Tool Interval
Packer	4.00			3995.00	
Stubb	1.00			3996.00	
Recorder	0.00	8320	Below	3996.00	
Perforations	27.00			4023.00	
Change Over Sub	0.00			4023.00	
Drill Pipe	126.00			4149.00	1000226.00 Bottom Packers & Anchor

**Total Tool Length: 227.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**6-17s-20w Rush,KS**  
**Limelight #1**  
Job Ticket: 59519      **DST#: 4**  
Test Start: 2022.07.04 @ 19:00:00

### Mud and Cushion Information

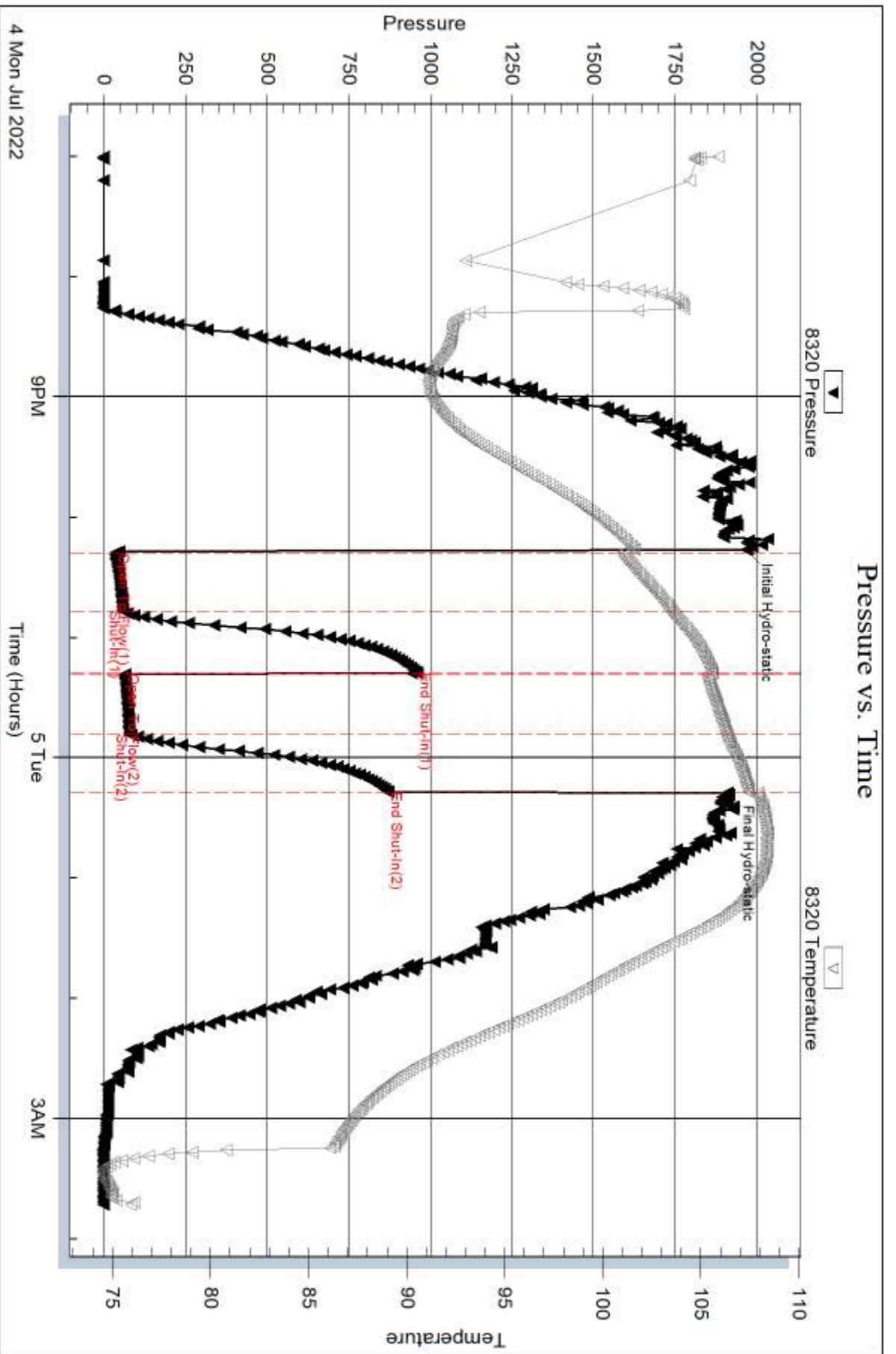
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	60% mud 40% oil	0.015

Total Length: 1.00 ft      Total Volume: 0.015 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

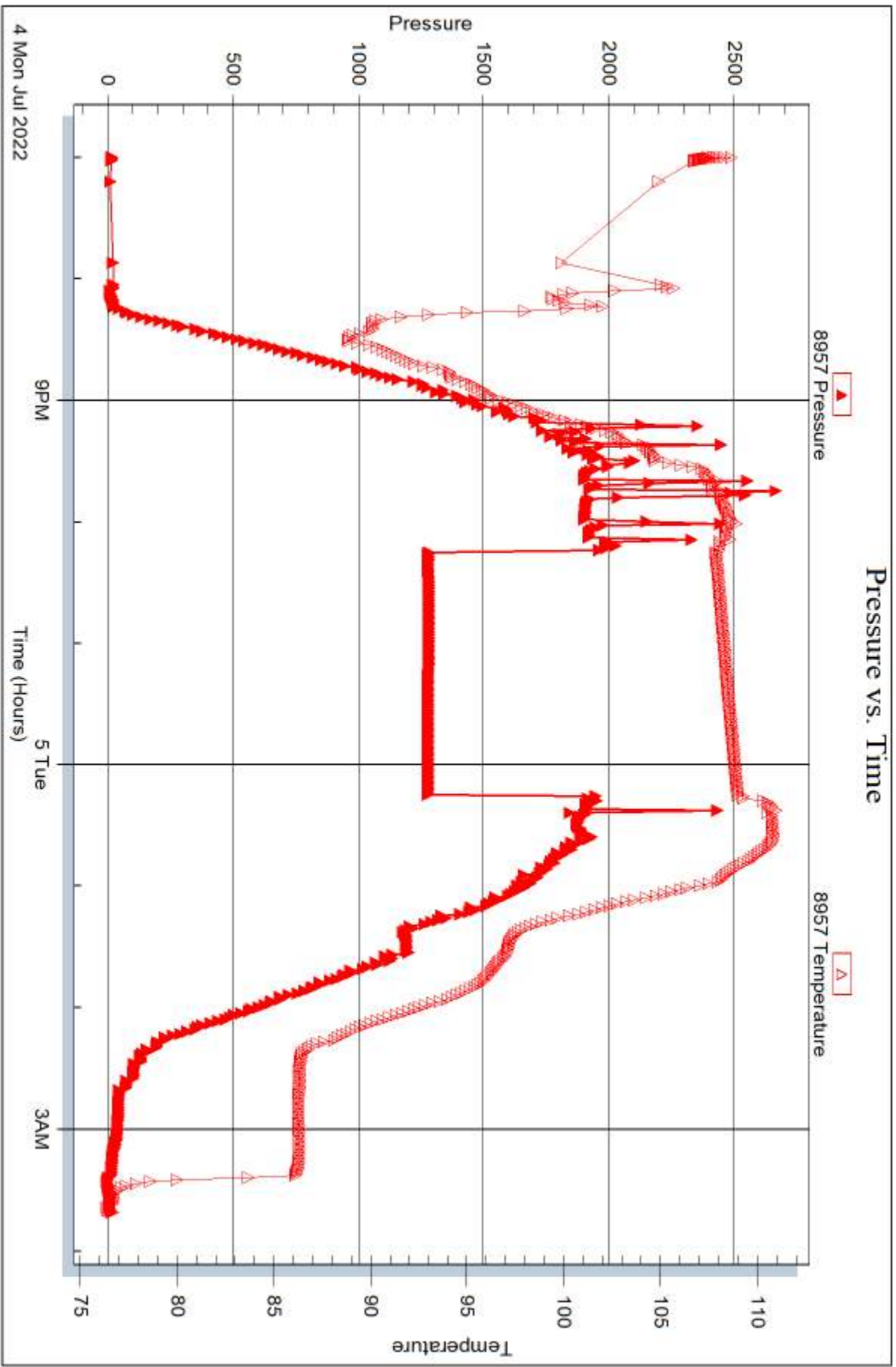


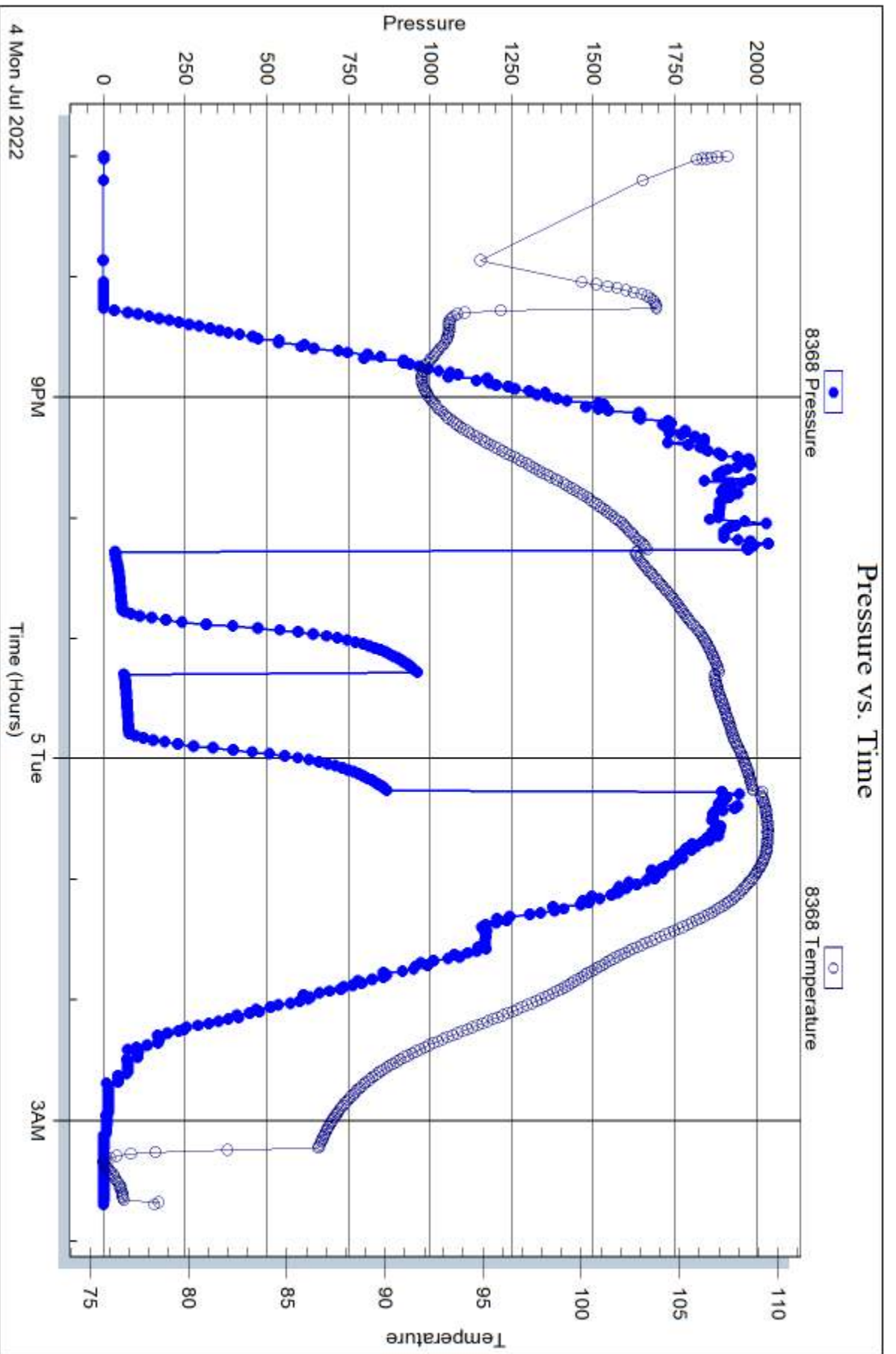
Serial #: 8957

Outside Palomino Petroleum

Lineight #1

DST Test Number: 4







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84st  
Newton KS 67114

ATTN: Ryan Seib

### **Limelight #1**

#### **6-17s-20w Rush,KS**

Start Date: 2022.07.05 @ 09:30:00

End Date: 2022.07.05 @ 15:49:45

Job Ticket #: 59520                      DST #: 5

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

Printed: 2022.07.07 @ 10:35:35

Palomino Petroleum

6-17s-20w Rush,KS

Limelight #1

DST # 5

Cherokee Sand

2022.07.05



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w Rush,KS**

**Limelight #1**

Job Ticket: 59520

**DST#: 5**

Test Start: 2022.07.05 @ 09:30:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:15:30  
 Time Test Ended: 15:49:45  
 Interval: **3953.00 ft (KB) To 4045.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Straddle (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

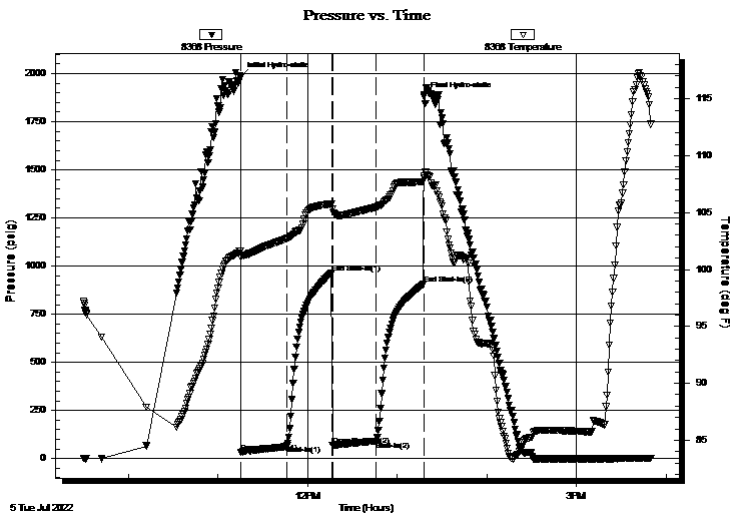
**Serial #: 8368**

**Inside**

Press@RunDepth: 90.82 psig @ 3961.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.05 End Date: 2022.07.05 Last Calib.: 2022.07.05  
 Start Time: 09:30:05 End Time: 15:49:44 Time On Btm: 2022.07.05 @ 11:15:15  
 Time Off Btm: 2022.07.05 @ 13:17:45

TEST COMMENT: IF-30-9 Inches  
 IS-30-No return  
 FF-30-7 Inches  
 FS-30-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.34	101.61	Initial Hydro-static
1	34.07	101.09	Open To Flow (1)
31	69.38	102.74	Shut-In(1)
61	964.23	105.78	End Shut-In(1)
62	68.51	105.36	Open To Flow (2)
91	90.82	105.47	Shut-In(2)
123	904.93	107.69	End Shut-In(2)
123	1880.24	108.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	Oil cut mud %60 Oil%40	2.33

\* 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 84st  
New ton KS 67114  
ATTN: Ryan Seib

**6-17s-20w Rush,KS**  
**Limelight #1**  
Job Ticket: 59520 **DST#: 5**  
Test Start: 2022.07.05 @ 09:30:00

**Tool Information**

Drill Pipe:	Length: 3936.00 ft	Diameter: 3.87 inches	Volume: 57.26 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3953.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	4045.00 ft				
Interval between Packers:	92.00 ft				
Tool Length:	228.00 ft				
Number of Packers:	3	Diameter:	inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3927.00	
Shut In Tool	5.00			3932.00	
Hydraulic tool	5.00			3937.00	
Jars	5.00			3942.00	
EM Tool	3.00			3945.00	
Safety Joint	3.00			3948.00	
Packer	5.00			3953.00	27.00 Bottom Of Top Packer
Packer - Shale	4.00			3957.00	
Stubb	1.00			3958.00	
Perforations	2.00			3960.00	
Change Over Sub	1.00			3961.00	
Recorder	0.00	8368	Inside	3961.00	
Recorder	0.00	8320	Outside	3961.00	
Drill Pipe	63.00			4024.00	
Change Over Sub	1.00			4025.00	
Perforations	19.00			4044.00	
Blank Off Sub	1.00			4045.00	92.00 Tool Interval
Packer	4.00			4049.00	
Stubb	1.00			4050.00	
Perforations	4.00			4054.00	
Change Over Sub	1.00			4055.00	
Recorder	0.00	8957	Below	4055.00	
Drill Pipe	95.00			4150.00	
Change Over Sub	1.00			4151.00	
Bullnose	3.00			4154.00	109.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>228.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**6-17s-20w Rush,KS**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59520

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.07.05 @ 09:30:00

### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Oil cut mud %60 Oil%40	2.328

Total Length: 160.00 ft      Total Volume: 2.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8368

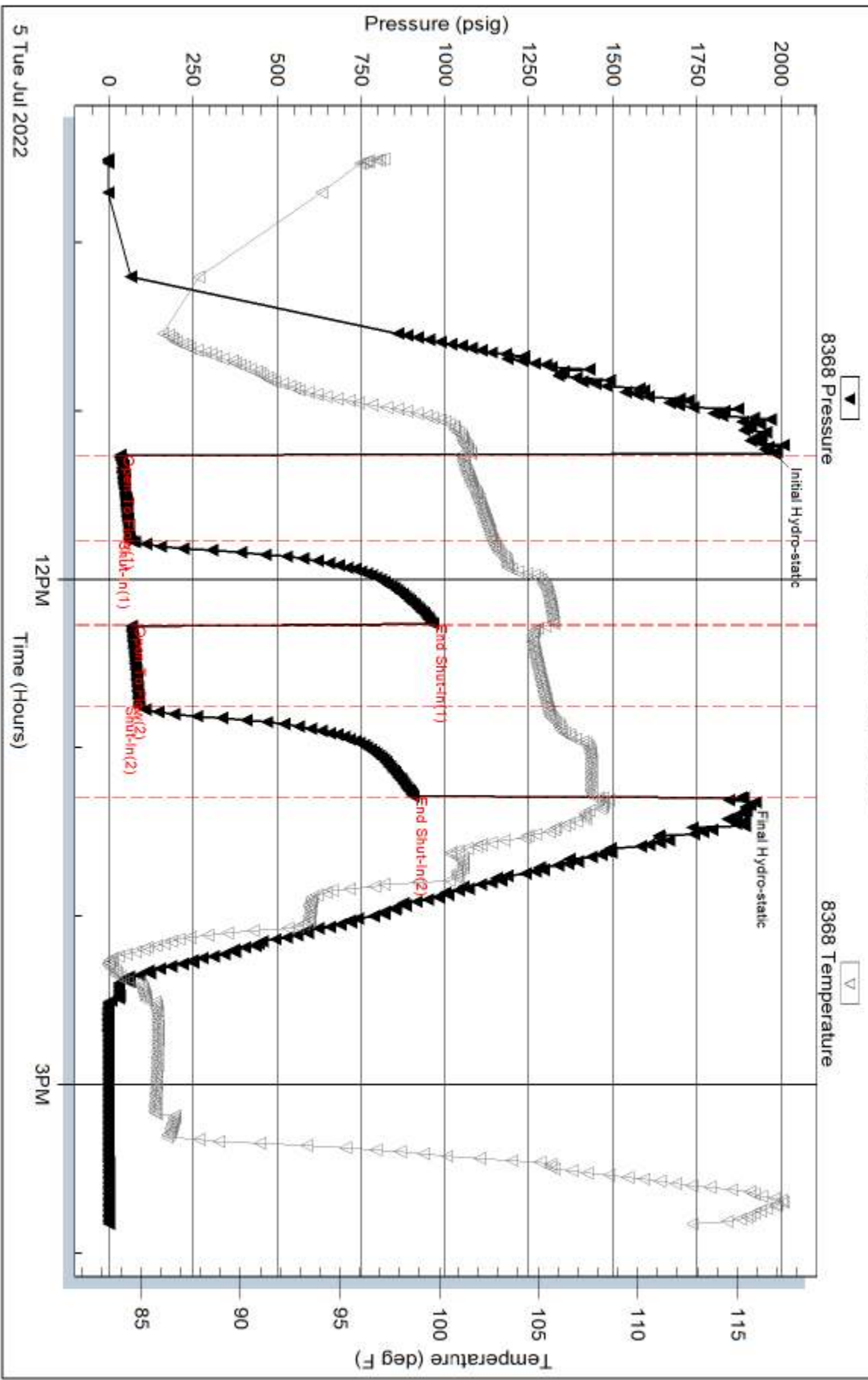
Inside

Palomino Petroleum

Lineight #1

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59520

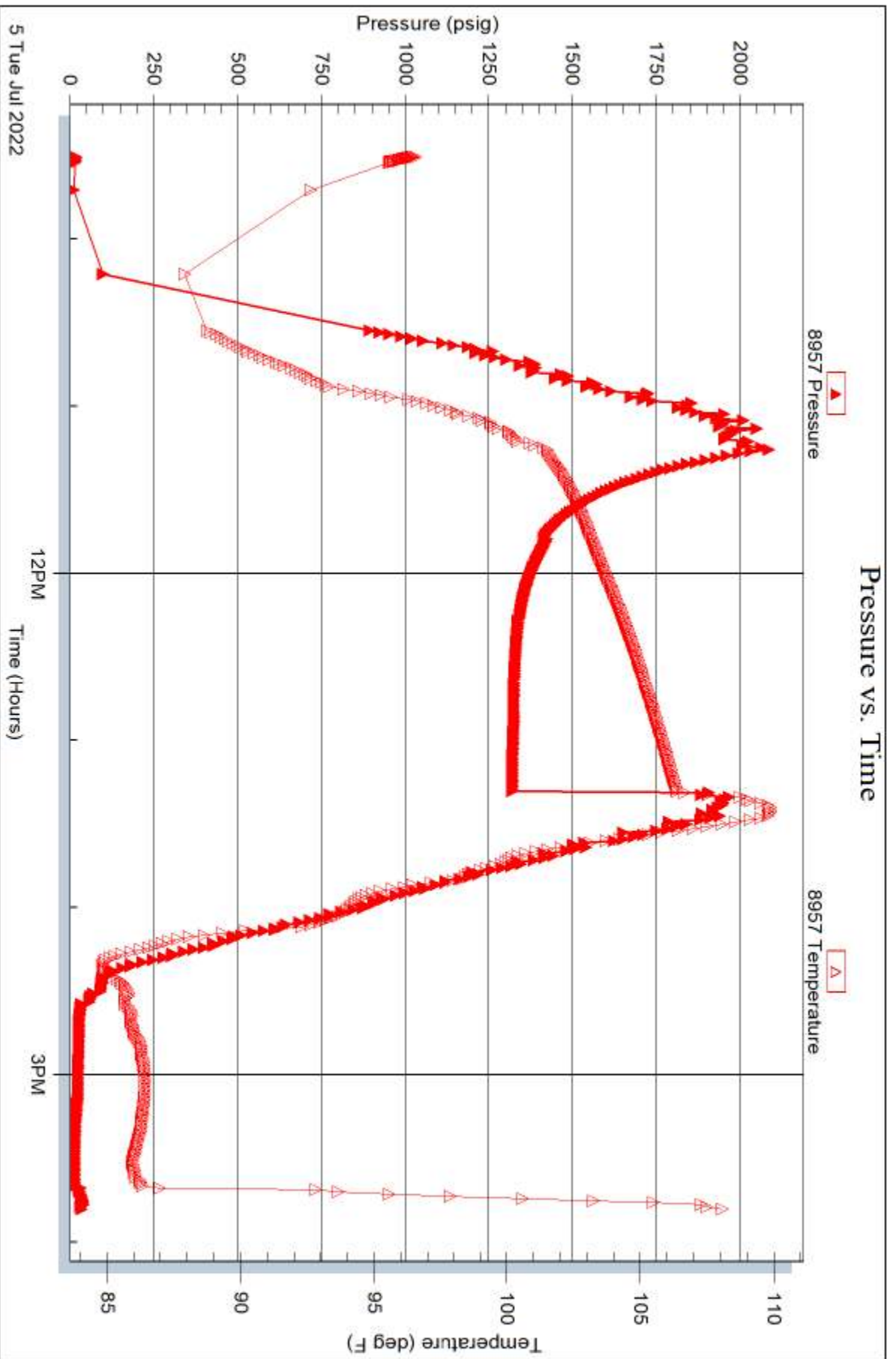
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Serial #: 8957

Below (Str Ratten) Petroleum

Lineight #1

DST Test Number: 5





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59516

Well Name & No. Limelight #1 Test No. 1 Date 7-2-22  
 Company Palomino Petroleum Elevation 2152 KB 2144 GL  
 Address 4424 SE 84st Newton, KS 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig Duke 2  
 Location: Sec. 6 Twp. 17E Rge. 20W Co. Rush State KS

Interval Tested 3996 - 4005 Zone Tested Cherokee Sand  
 Anchor Length 9 Drill Pipe Run 3991 Mud Wt. 9.0  
 Top Packer Depth 3991 Drill Collars Run \_\_\_\_\_ Vis 53  
 Bottom Packer Depth 3996 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth 4005 Chlorides 5100 ppm System LCM 2#

Blow Description IS - 30 - No Blow  
ISI - 30 - No Return  
FF - 30 - No Blow  
FBI - 30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</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 1 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1992</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>19:00</u>
(B) First Initial Flow <u>25</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>20:45</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>23:25</u>
(D) Initial Shut-In <u>303</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:25</u>
(E) Second Initial Flow <u>27</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>4:00</u>
(F) Second Final Flow <u>27</u>	<input type="checkbox"/> Mileage <u>34 X 2</u> 108	Comments _____
(G) Final Shut-In <u>189</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1858</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>2608</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2608</u>	

Approved By \_\_\_\_\_ Our Representative Terrance Wickham  
 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. 59517

Well Name & No. Limelight Test No. 2 Date 7-3-22  
 Company Palomino Petroleum Elevation 2152 KB 2144 GL  
 Address 4924 SE 84th St Newton, KS 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig Duke 2  
 Location: Sec. 6 Twp. 17S Rge. 20W Co. Rush State KS

Interval Tested 3996-4018 Zone Tested Cherokee Sand  
 Anchor Length 22 Drill Pipe Run 3991 Mud Wt. 9.0  
 Top Packer Depth 3991 Drill Collars Run 0 Vis 53  
 Bottom Packer Depth 3996 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth \_\_\_\_\_ Chlorides 5100 ppm System LCM 2#

Blow Description IF-30- ~~Surface Blow~~ Surface Blow  
ISI 30- No Return  
FF 30- Surface Blow  
FSI 30- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Oil Spotted 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 Total 40 BHT 113 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1961</u>	<input checked="" type="checkbox"/> Test <u>1950</u>	T-On Location <u>10:30</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>11:30</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>12:57</u>
(D) Initial Shut-In <u>817</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:57</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>5:15</u>
(F) Second Final Flow <u>40</u>	<input type="checkbox"/> Mileage <u>36XZ</u> 108	Comments _____
(G) Final Shut-In <u>794</u>	<input type="checkbox"/> Sampler _____	<u>EM Tool</u>
(H) Final Hydrostatic <u>1906</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open 30  Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 2608  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2608

Approved By \_\_\_\_\_ Our Representative Terrance Wickham

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. 59519

Well Name & No. Lime light #1 Test No. 4 Date 7-4-22  
 Company Palomino Petroleum Elevation 2152 KB 2144 GL  
 Address 4924 SE 84th St Newton, KS 67114-8827  
 Co. Rep / Geo. Ryan Beib Rig Duke 2  
 Location: Sec. 6 Twp. 17s Rge. 20w Co. Rush State KS

Interval Tested 3953-3995 Zone Tested Pawnee Sand  
 Anchor Length 42' 155' Tail Drill Pipe Run 4019 Mud Wt. 9.3  
 Top Packer Depth 3948 Drill Collars Run - Vis 60  
 Bottom Packer Depth 3953 Wt. Pipe Run - WL 6.0  
 Total Depth 4150 Chlorides 7000 ppm System LCM 2H

Blow Description IS-30 - 1/2 inch then Backed off to surface Blow  
ISS-30 - No Return  
FF-30 - No Return  
FSI-30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>135</u>		<u>40</u>		<u>60</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

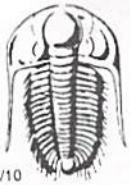
Rec Total 135 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1968  Test 1950 T-On Location 6:00  
 (B) First Initial Flow 35  Jars 300 T-Started 7:00  
 (C) First Final Flow 59  Safety Joint \_\_\_\_\_ T-Open 10:03  
 (D) Initial Shut-In 959  Circ Sub \_\_\_\_\_ T-Pulled 12:03  
 (E) Second Initial Flow 66  Hourly Standby \_\_\_\_\_ T-Out 3:30  
 (F) Second Final Flow 79  Mileage 36 X 2 108 Comments Had to work 95 fts  
 (G) Final Shut-In 871  Sampler \_\_\_\_\_ EM Tool  
 (H) Final Hydrostatic 1910  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 3208  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 3208

Approved By \_\_\_\_\_ Our Representative Terrance Wickham

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. 59520

Well Name & No. Line light #1 Test No. 5 Date 7-5-22  
 Company Palomine Petroleum Elevation 2152 KB 2144 GL  
 Address 4924 SE 84th St Newton, KS 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig Duke 2  
 Location: Sec. 6 Twp. 17S Rge. 20W Co. Rush State KS

Interval Tested 3953 - 4045 Zone Tested Chevo Kee Sand  
 Anchor Length 92' Anchor 105' Tail Drill Pipe Run 4019 Mud Wt. 10.0 9.3  
 Top Packer Depth 3948 Drill Collars Run \_\_\_\_\_ Vis 4.0 6.0  
 Bottom Packer Depth 3953 Wt. Pipe Run \_\_\_\_\_ WL 10.8  
 Total Depth 4150 Chlorides 11,000 ppm System LCM #

Blow Description IF-30 - 9 inches  
IS-30 - No Return  
FF-30 - 7 inches  
FSI-30 - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>160</u>	<u>Oil cut Mud</u>	<u>40</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 160 BHT 108 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

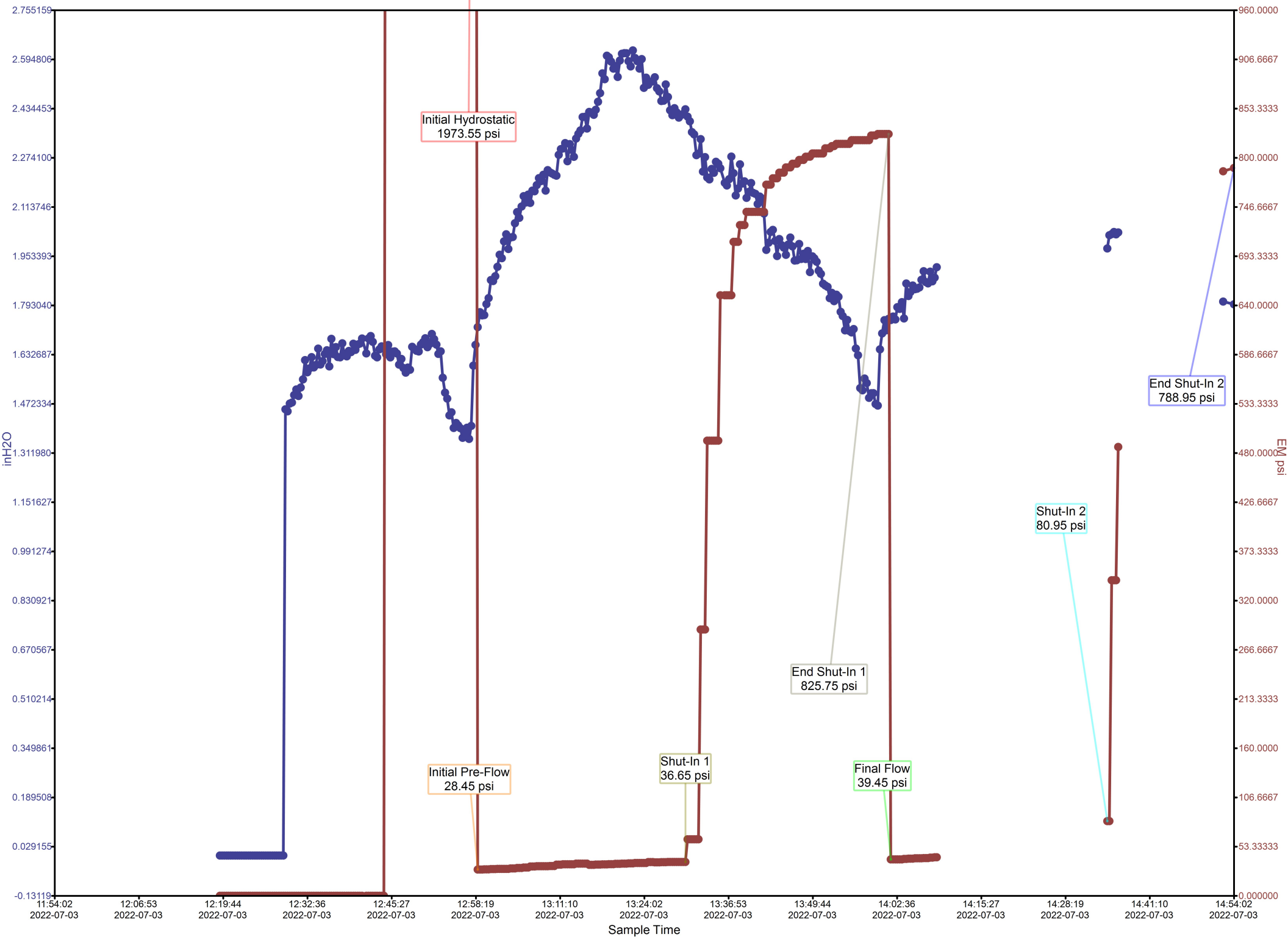
(A) Initial Hydrostatic 1982  Test 1950 T-On Location Stayed on Loc  
 (B) First Initial Flow 34  Jars 300 T-Started 9:30  
 (C) First Final Flow 69  Safety Joint \_\_\_\_\_ T-Open 11:18  
 (D) Initial Shut-In 964  Circ Sub \_\_\_\_\_ T-Pulled 13:18  
 (E) Second Initial Flow 69  Hourly Standby \_\_\_\_\_ T-Out 15:45  
 (F) Second Final Flow 91  Mileage 36X2 Comments \_\_\_\_\_  
 (G) Final Shut-In 904  Sampler \_\_\_\_\_ EM Tool  
 (H) Final Hydrostatic 1840  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 3100  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 3100

Approved By \_\_\_\_\_ Our Representative Terrance Wickham

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.

# Palomino Petroleum - Limelight 1 - DST #2a





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

Test Start: 2022.07.03 @ 11:30:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:58:15  
 Time Test Ended: 17:14:30  
 Interval: **3996.00 ft (KB) To 4018.00 ft (KB) (TVD)**  
 Total Depth: 4018.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

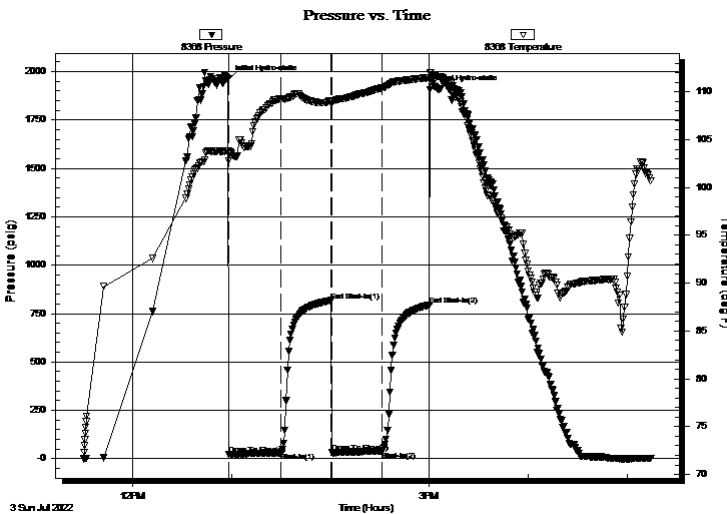
**Serial #: 8368**

**Inside**

Press@RunDepth: 39.91 psig @ 3997.00 ft (KB)  
 Start Date: 2022.07.03 End Date: 2022.07.03  
 Start Time: 11:30:05 End Time: 17:14:29  
 Capacity: 8000.00 psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2022.07.03 @ 12:58:00  
 Time Off Btm: 2022.07.03 @ 15:00:15

TEST COMMENT: IF-30-Surface blow  
 IS-30-No return  
 FF-30-Surface blow  
 FS-30-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1961.29	103.84	Initial Hydro-static
1	19.98	102.77	Open To Flow (1)
32	30.49	109.30	Shut-In(1)
63	817.11	109.06	End Shut-In(1)
63	32.64	108.79	Open To Flow (2)
94	39.91	110.39	Shut-In(2)
122	794.32	111.49	End Shut-In(2)
123	1906.28	111.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	oil spotted mud	0.58

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

Test Start: 2022.07.03 @ 11:30:00

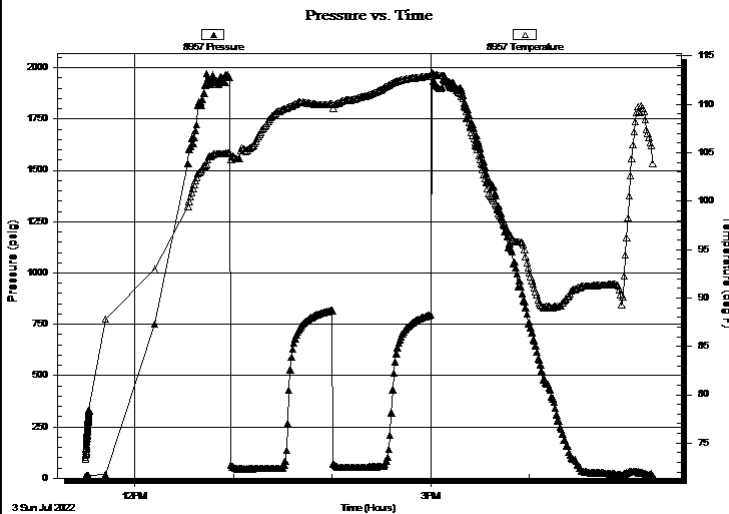
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:58:15  
 Time Test Ended: 17:14:30  
**Interval: 3996.00 ft (KB) To 4018.00 ft (KB) (TVD)**  
 Total Depth: 4018.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8957

Press@RunDepth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.03 End Date: 2022.07.03 Last Calib.: 1899.12.30  
 Start Time: 11:30:01 End Time: 17:15:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF-30-Surface blow  
 IS-30-No return  
 FF-30-Surface blow  
 FS-30-No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	oil spotted mud	0.58

\* 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

**6-17s-20w**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59517

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.07.03 @ 11:30:00

### 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	oil spotted mud	0.582

Total Length: 40.00 ft      Total Volume: 0.582 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

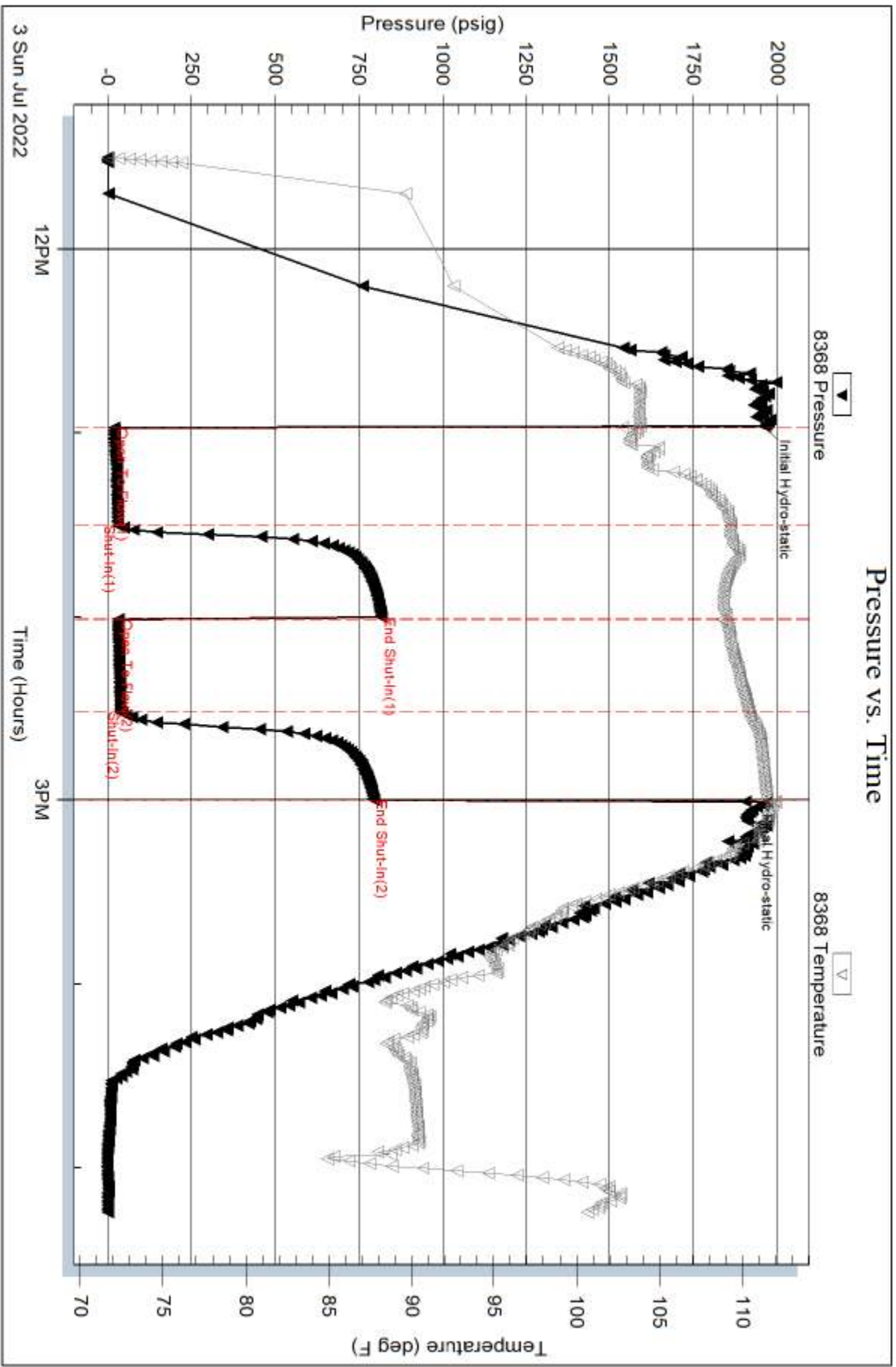
Serial #: 8368

Inside

Palomino Petroleum

Lineight #1

DST Test Number: 2



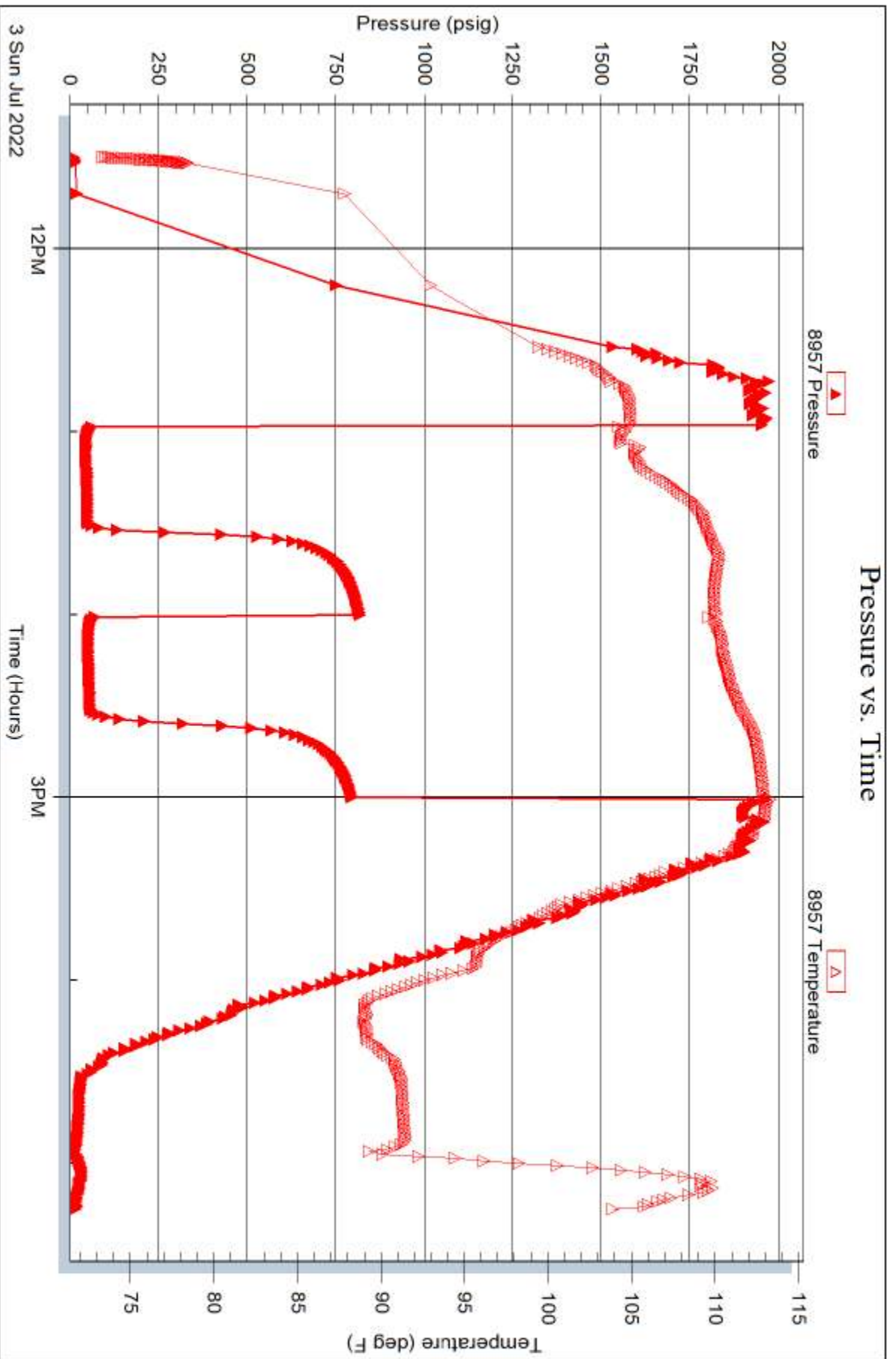


Serial #: 8957

Palomino Petroleum

Lineight #1

DST Test Number: 2





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum

6-17s-20w

4924 SE 84st  
New ton KS 67114

Limelight #1

Job Ticket: 59518

DST#: 3

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

### GENERAL INFORMATION:

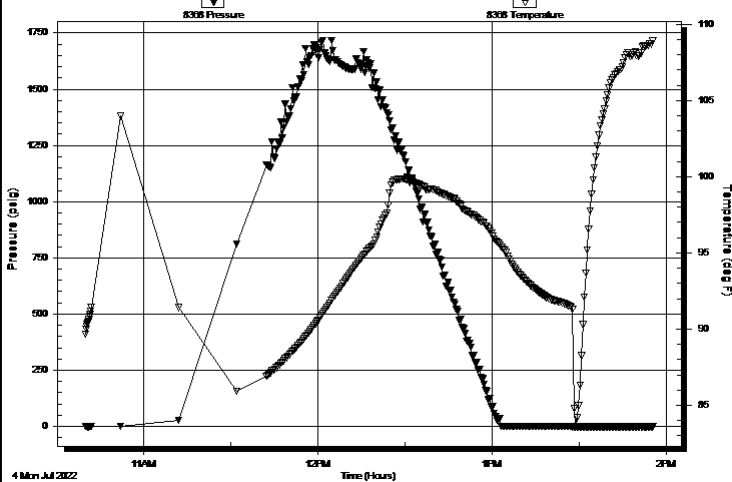
Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**  
 Total Depth: 4005.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

### Serial #: 8368

Press@RunDepth:          psig @          ft (KB)          Capacity: 8000.00 psig  
 Start Date: 2022.07.04          End Date: 2022.07.04          Last Calib.: 1899.12.30  
 Start Time: 10:40:05          End Time: 13:55:15          Time On Btm:  
    Time Off Btm:

TEST COMMENT: miss run

Pressure vs. Time



### 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)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**6-17s-20w**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59518

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2022.07.02 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

Test Type: Conventional Straddle (Reset)

Tester: Terrance

Unit No: 66

**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Reference Elevations: 2152.00 ft (KB)

Total Depth: 4005.00 ft (KB) (TVD)

2144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8320

Press@RunDepth: psig @ ft (KB)

Start Date: 2022.07.04

End Date:

2022.07.04

Capacity: 8000.00 psig

Last Calib.:

1899.12.30

Start Time: 10:40:05

End Time:

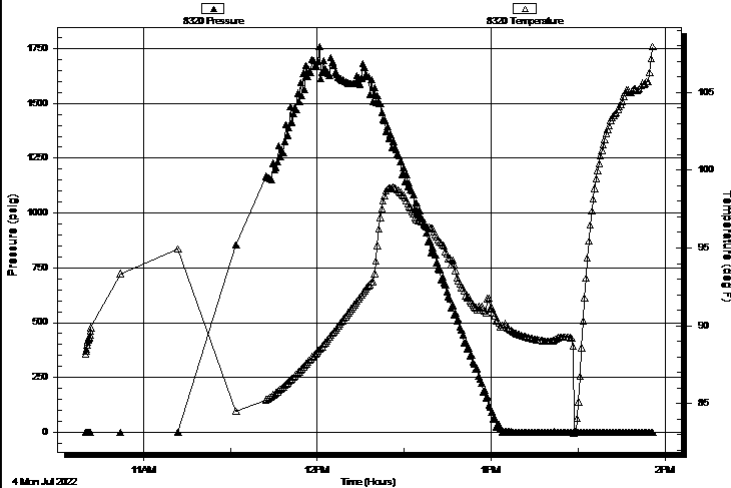
13:55:45

Time On Btm:

Time Off Btm:

TEST COMMENT: miss run

Pressure vs. Time



## 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)

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59518

**DST#: 3**

Test Start: 2022.07.02 @ 20:45:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended:

**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Total Depth: 4005.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Terrance

Unit No: 66

Reference Elevations: 2152.00 ft (KB)

2144.00 ft (CF)

KB to GR/CF: 8.00 ft

## Serial #: 8957

Press@RunDepth: psig @ ft (KB)

Start Date: 2022.07.04

End Date:

2022.07.04

Start Time: 10:40:01

End Time:

13:54:30

Capacity: 8000.00 psig

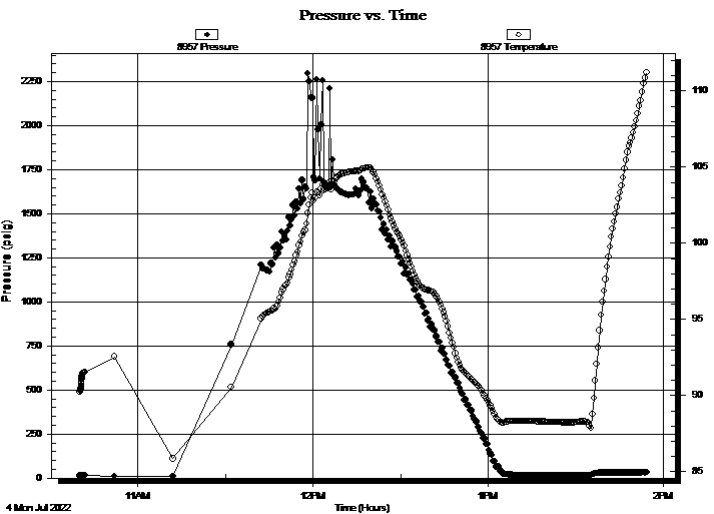
Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: miss run



## PRESSURE SUMMARY

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

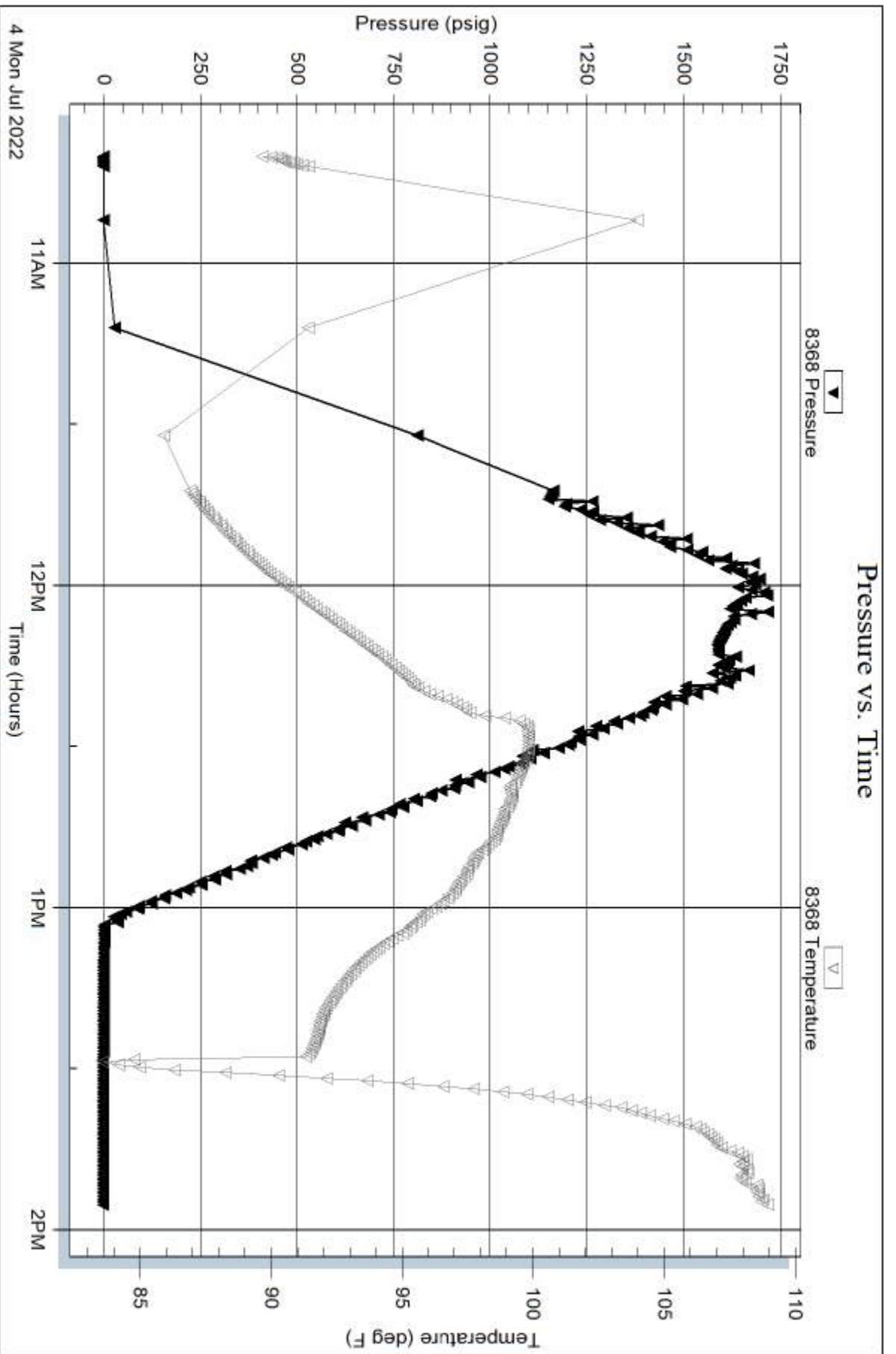
## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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

\* Recovery from multiple tests

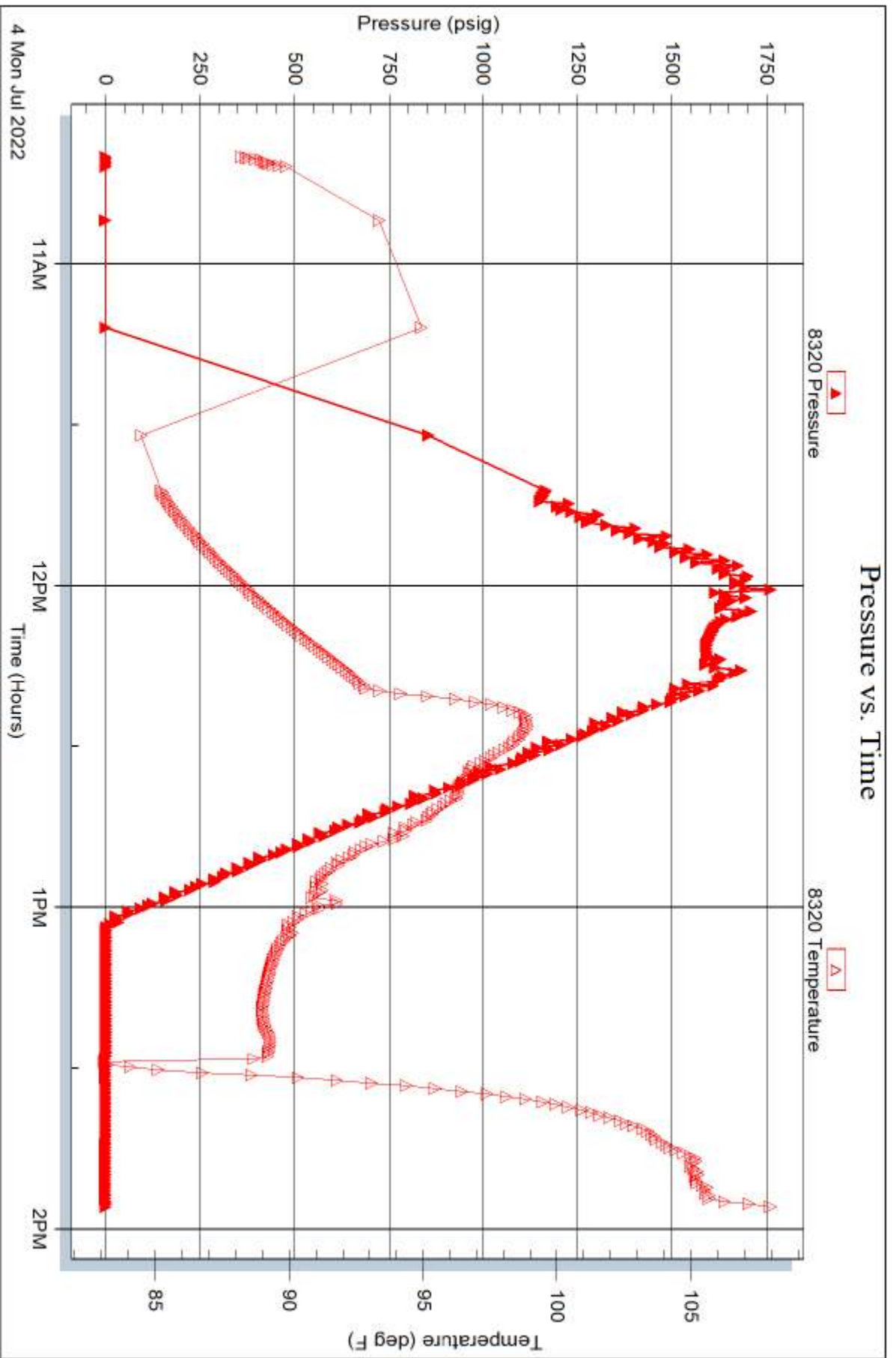


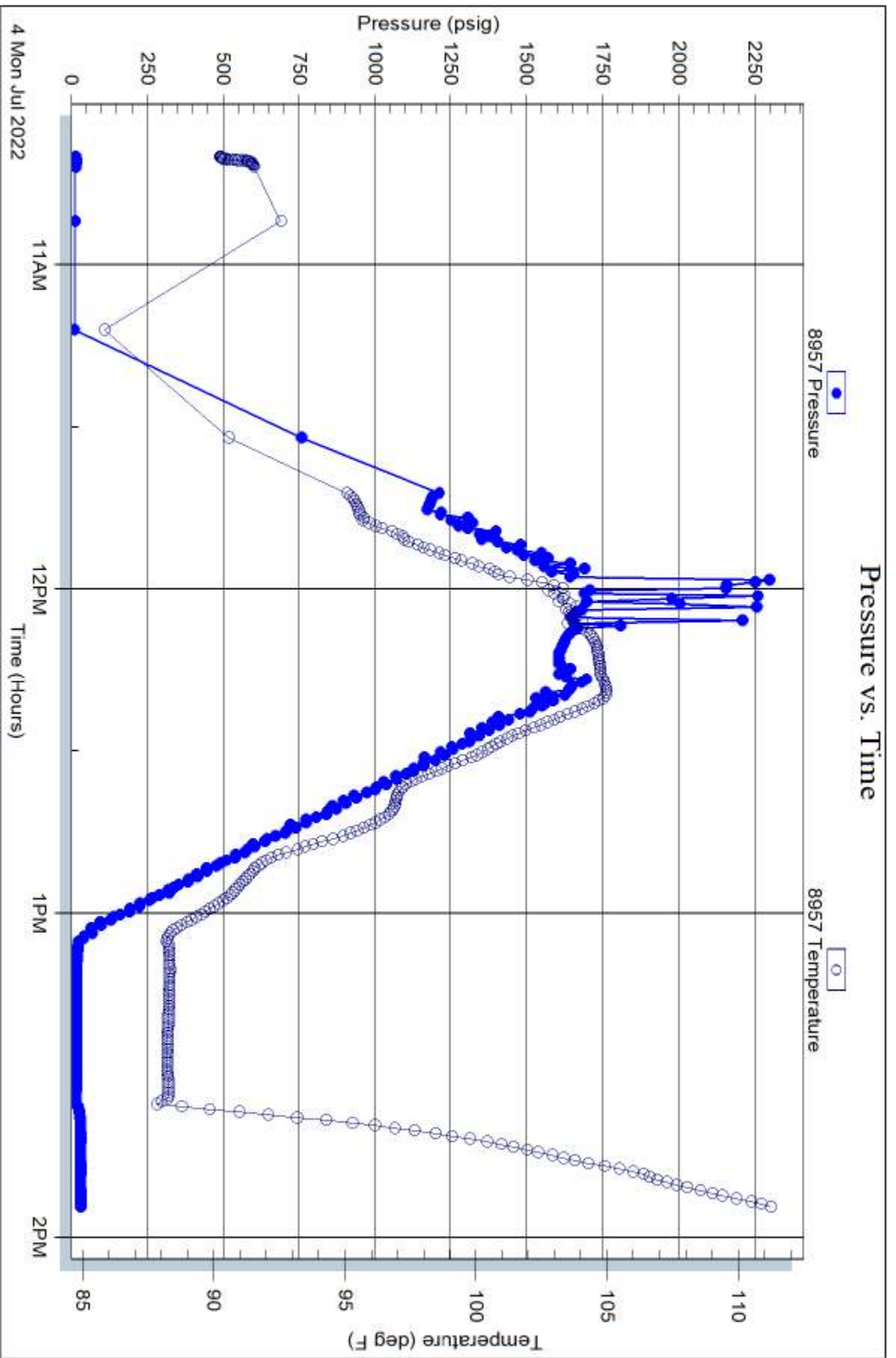
Serial #: 8320

Palomino Petroleum

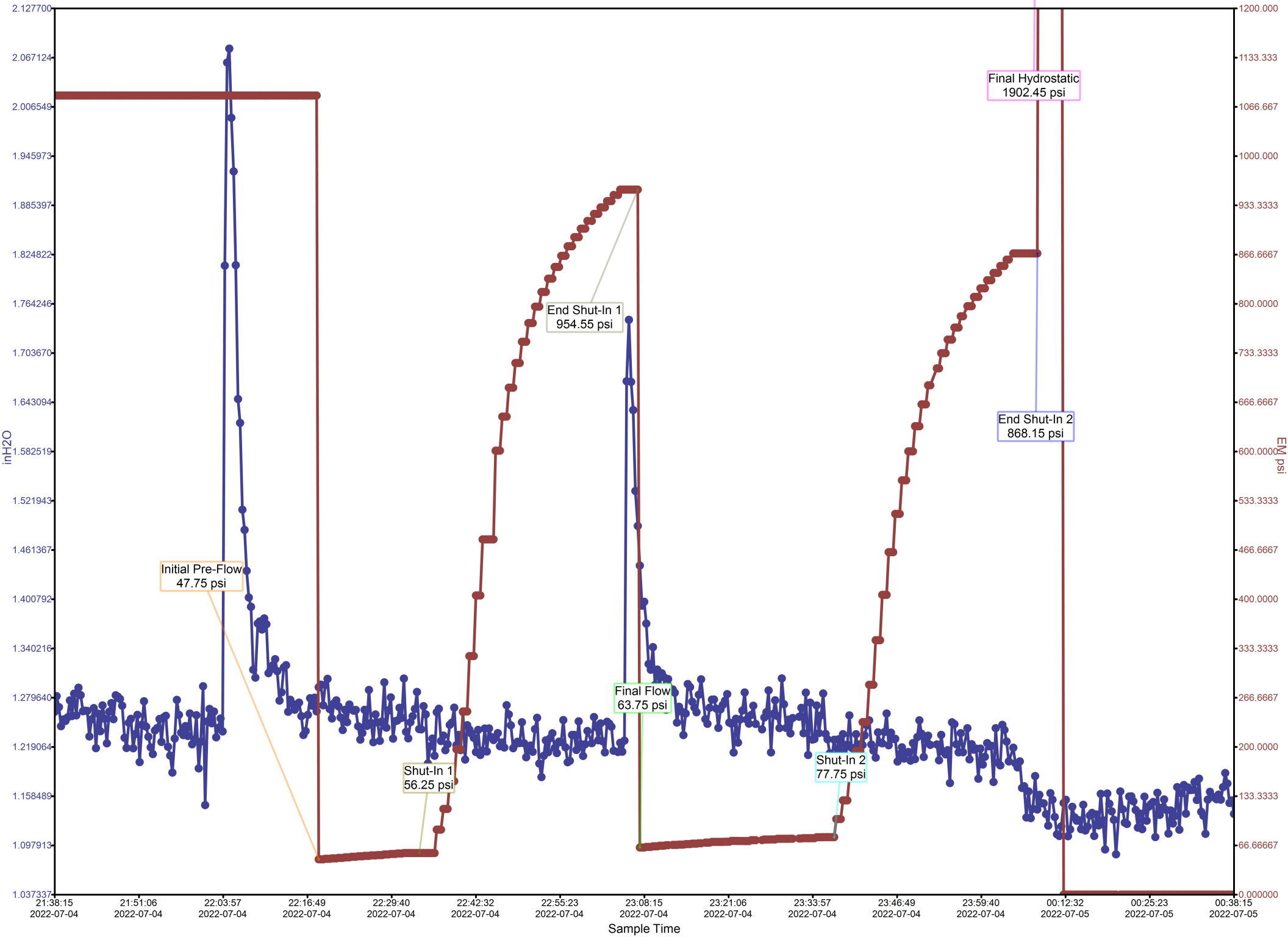
Lineight #1

DST Test Number: 3





# Palomino Petroleum - Limelight 1 - DST #4

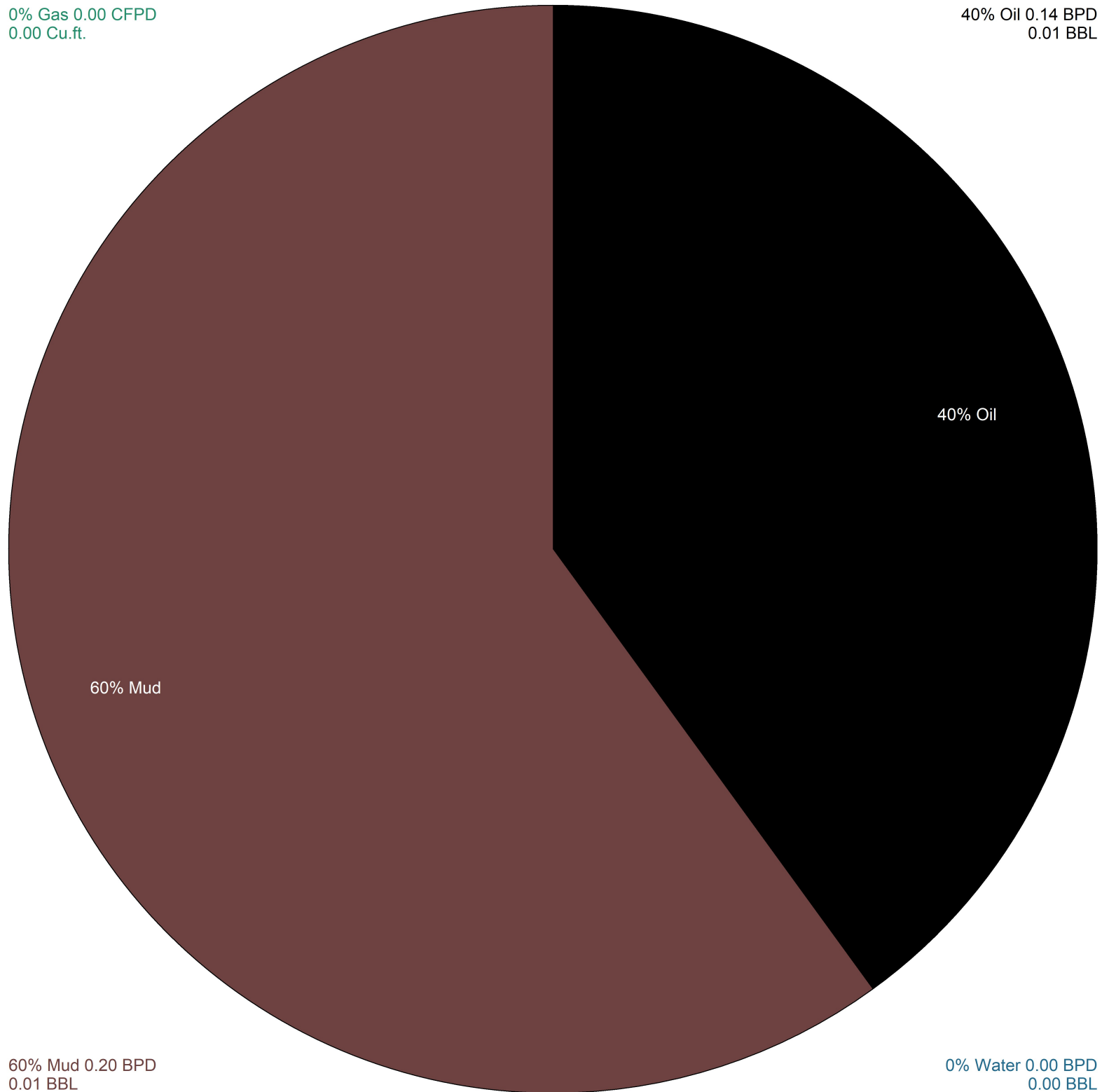




Calculated Recovery Analysis - Palomino Petroleum - Limelight 1 - DST #4

0% Gas 0.00 CFPD  
0.00 Cu.ft.

40% Oil 0.14 BPD  
0.01 BBL



60% Mud

40% Oil

60% Mud 0.20 BPD  
0.01 BBL

0% Water 0.00 BPD  
0.00 BBL



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59519

**DST#: 4**

Test Start: 2022.07.04 @ 19:00:00

## GENERAL INFORMATION:

Formation: **Pawnee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:30

Time Test Ended: 03:42:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 66

**Interval: 3953.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Reference Elevations: 2152.00 ft (KB)

Total Depth: 4150.00 ft (KB) (TVD)

2144.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 8.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: 78.68 psig @ 3957.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.07.04

End Date: 2022.07.05

Last Calib.: 1899.12.30

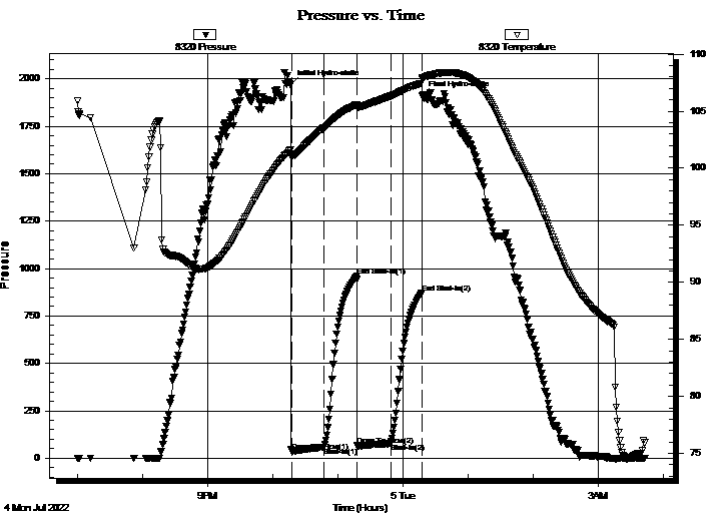
Start Time: 19:00:05

End Time: 03:42:45

Time On Btm: 2022.07.04 @ 22:16:15

Time Off Btm: 2022.07.05 @ 00:17:30

**TEST COMMENT:** IF-30-Blow built to 1/2 inch then backed off to a surface blow  
IS-30-No return  
FF-30-No return  
FS-30-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1968.28	101.63	Initial Hydro-static
2	35.19	101.06	Open To Flow (1)
31	58.65	103.50	Shut-In(1)
62	959.35	105.59	End Shut-In(1)
62	66.04	105.36	Open To Flow (2)
93	78.68	106.31	Shut-In(2)
121	871.26	107.44	End Shut-In(2)
122	1910.48	107.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	60% mud 40% oil	0.01

\* 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

**6-17s-20w**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59519

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2022.07.04 @ 19:00:00

### 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: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	60% mud 40% oil	0.015

Total Length: 1.00 ft      Total Volume: 0.015 bbl

Num Fluid Samples: 0

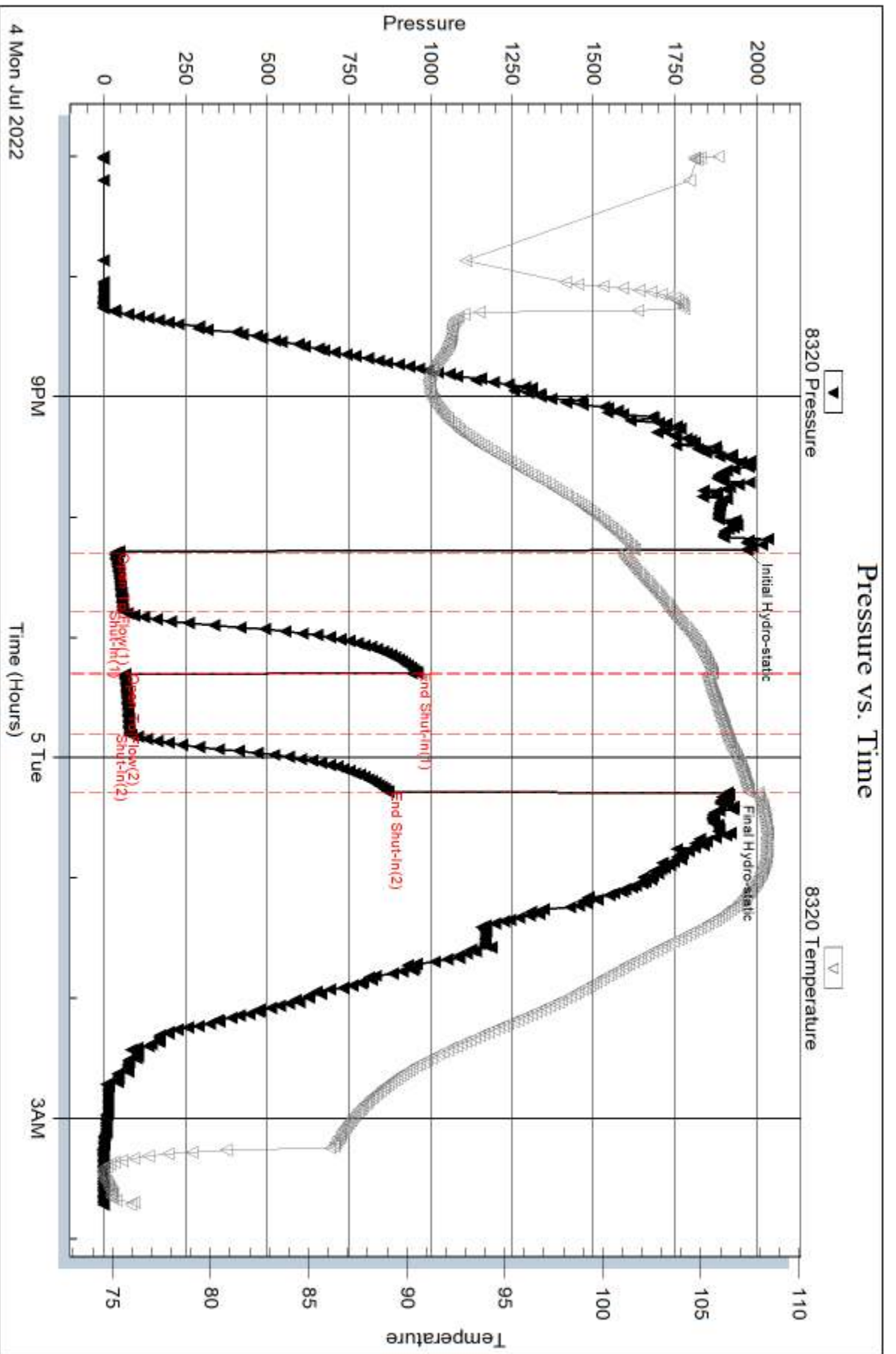
Num Gas Bombs: 0

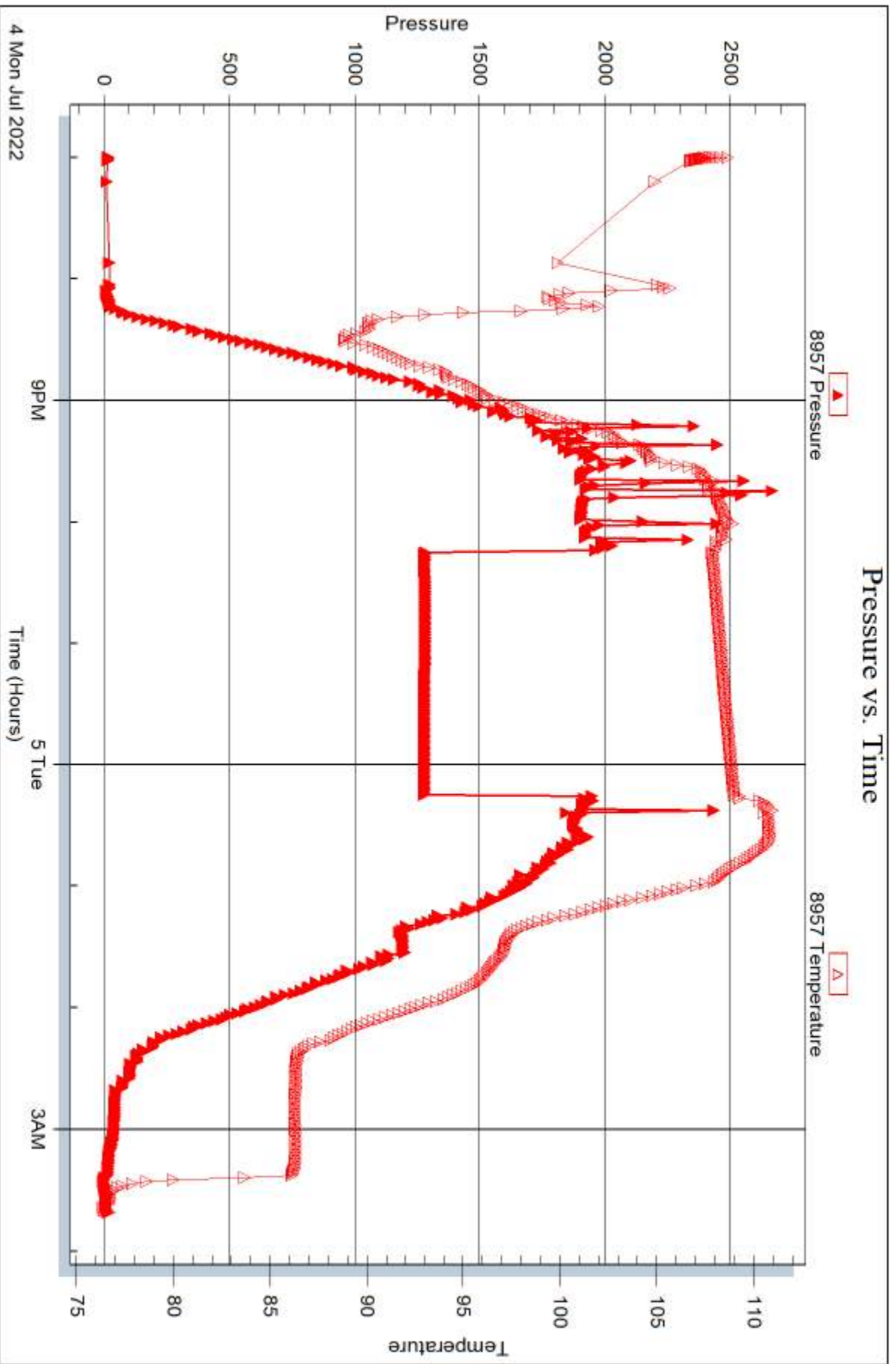
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





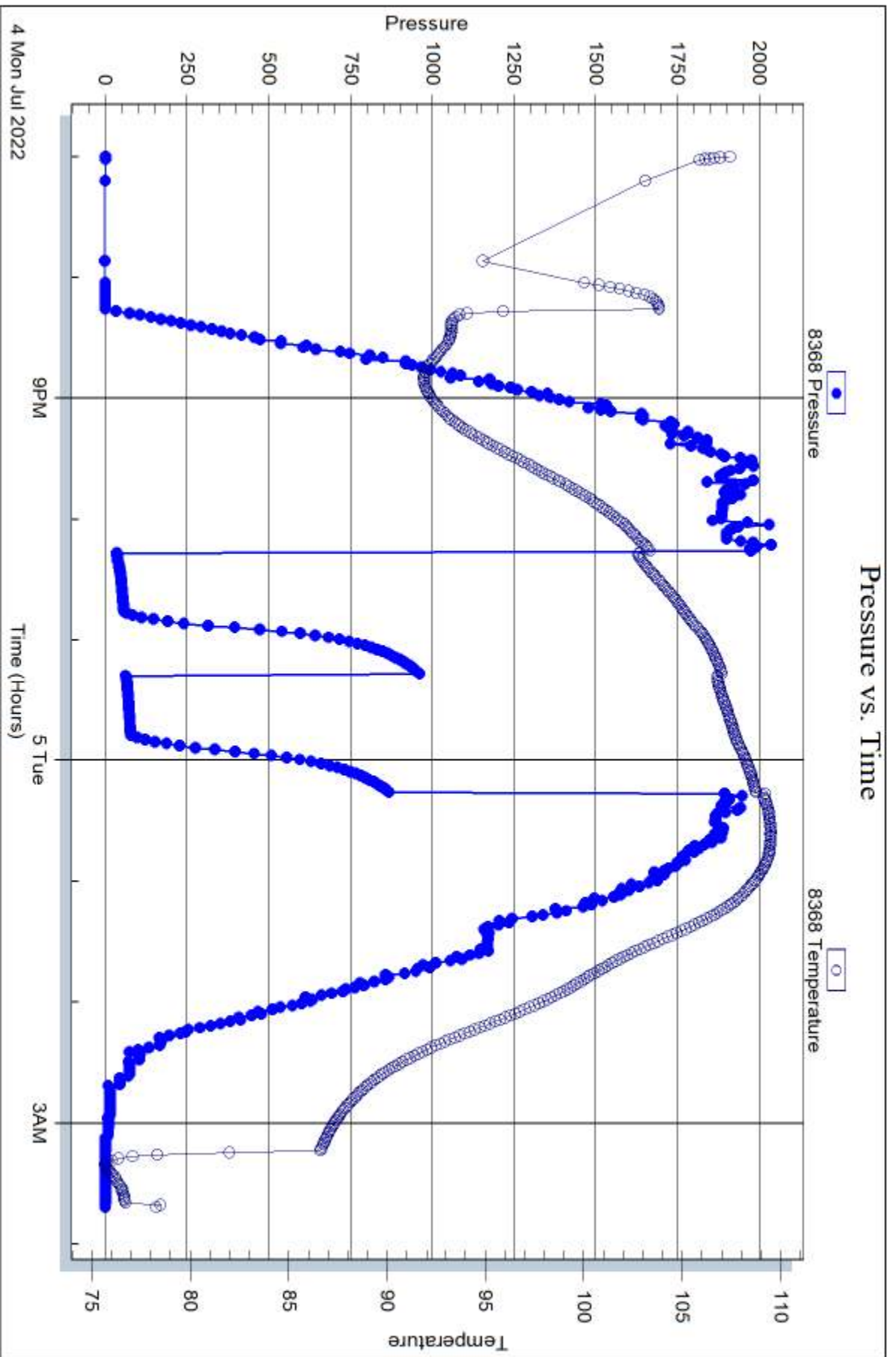
Serial #: 8368

Inside

Palomino Petroleum

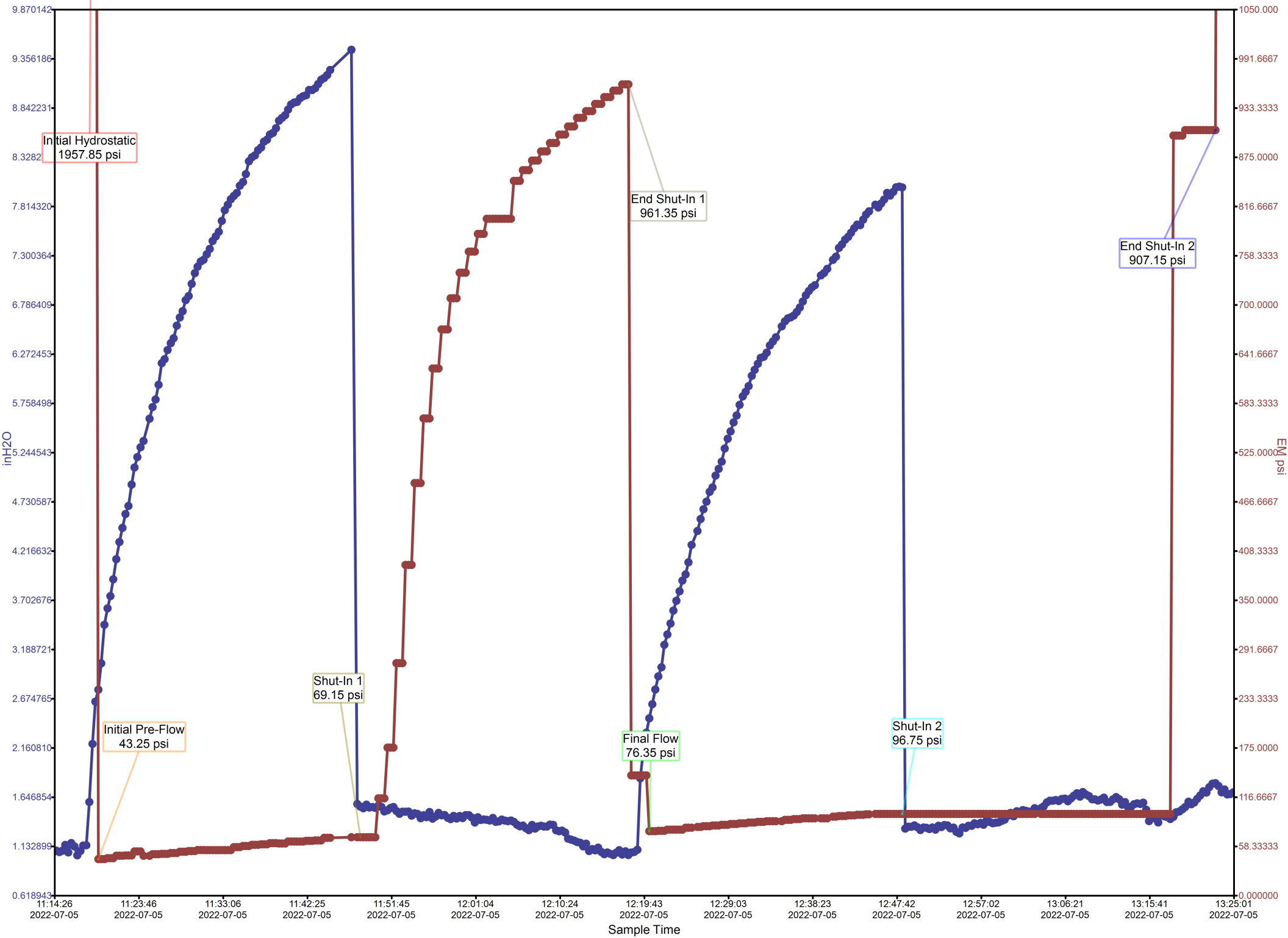
Lineight #1

DST Test Number: 4





# Palomino Petroleum - Limelight 1 - DST #5



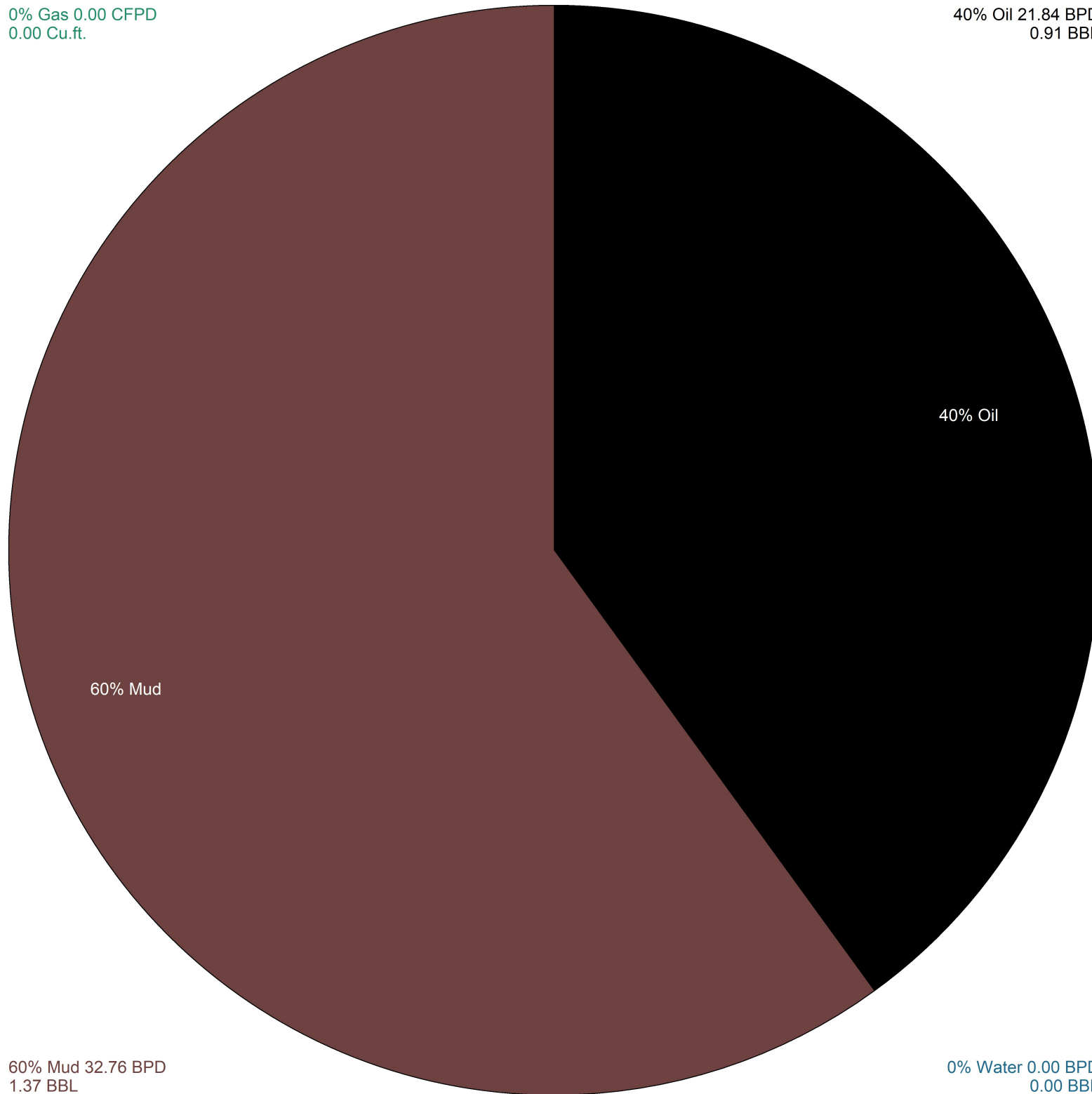
Calculated Recovery Analysis - Palomino Petroleum - Limelight 1 - DST #5

0% Gas 0.00 CFPD  
0.00 Cu.ft.

40% Oil 21.84 BPD  
0.91 BBL

60% Mud 32.76 BPD  
1.37 BBL

0% Water 0.00 BPD  
0.00 BBL





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

**6-17s-20w**

**Limelight #1**

Job Ticket: 59520

**DST#: 5**

Test Start: 2022.07.05 @ 09:30:00

## GENERAL INFORMATION:

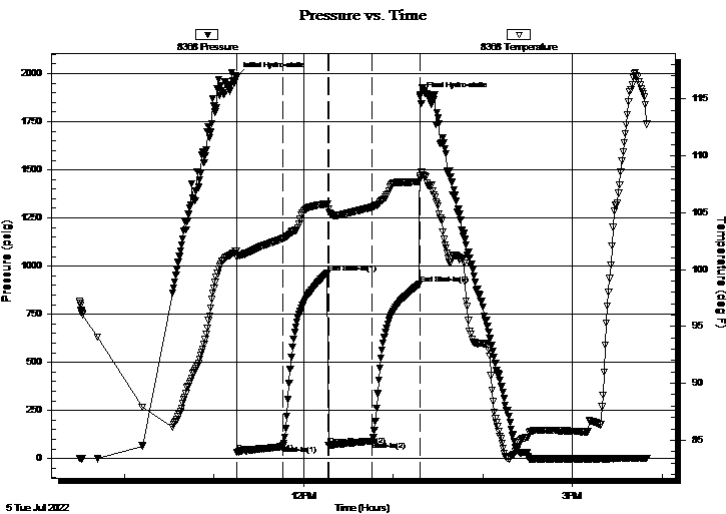
Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:15:30  
 Time Test Ended: 15:49:45  
 Interval: **3953.00 ft (KB) To 4045.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Straddle (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8368**

**Inside**

Press@RunDepth: 90.82 psig @ 3961.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.05 End Date: 2022.07.05 Last Calib.: 2022.07.05  
 Start Time: 09:30:05 End Time: 15:49:44 Time On Btm: 2022.07.05 @ 11:15:15  
 Time Off Btm: 2022.07.05 @ 13:17:45

TEST COMMENT: IF-30-9 Inches  
 IS-30-No return  
 FF-30-7 Inches  
 FS-30-No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1982.34	101.61	Initial Hydro-static
1	34.07	101.09	Open To Flow (1)
31	69.38	102.74	Shut-In(1)
61	964.23	105.78	End Shut-In(1)
62	68.51	105.36	Open To Flow (2)
91	90.82	105.47	Shut-In(2)
123	904.93	107.69	End Shut-In(2)
123	1880.24	108.24	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	Oil cut mud %60 Oil%40	2.33

\* 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 84st  
New ton KS 67114  
ATTN: Ryan Seib

**6-17s-20w**

**Limelight #1**

Job Ticket: 59520

**DST#: 5**

Test Start: 2022.07.05 @ 09:30:00

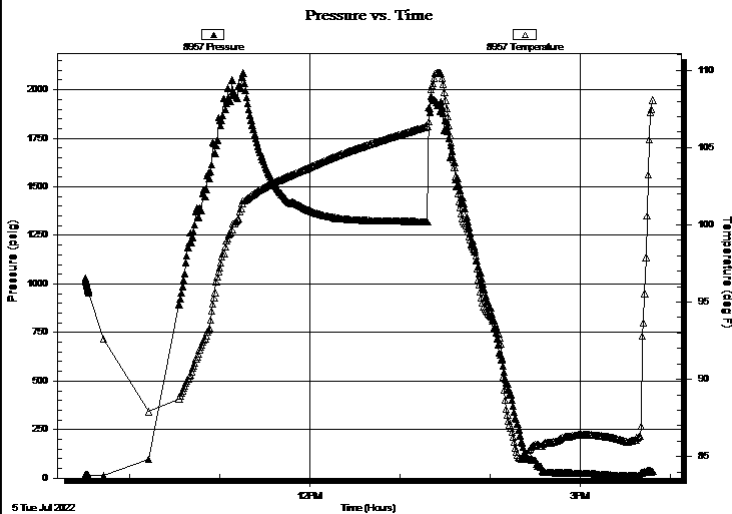
## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 11:15:30  
 Time Test Ended: 15:49:45  
 Interval: **3953.00 ft (KB) To 4045.00 ft (KB) (TVD)**  
 Total Depth: 4150.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition:  
 Test Type: Conventional Straddle (Reset)  
 Tester: Terrance  
 Unit No: 66  
 Reference Elevations: 2152.00 ft (KB)  
 2144.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8957 Below (Straddle)**

Press@RunDepth: psig @ 4055.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.07.05 End Date: 2022.07.05 Last Calib.: 1899.12.30  
 Start Time: 09:30:28 End Time: 15:48:27 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-30-9 Inches  
 IS-30-No return  
 FF-30-7 Inches  
 FS-30-No return



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	Oil cut mud %60 Oil%40	2.33

## 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

**6-17s-20w**

4924 SE 84st  
New ton KS 67114

**Limelight #1**

Job Ticket: 59520

**DST#: 5**

ATTN: Ryan Seib

Test Start: 2022.07.05 @ 09:30:00

### 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Oil cut mud %60 Oil%40	2.328

Total Length: 160.00 ft      Total Volume: 2.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8368

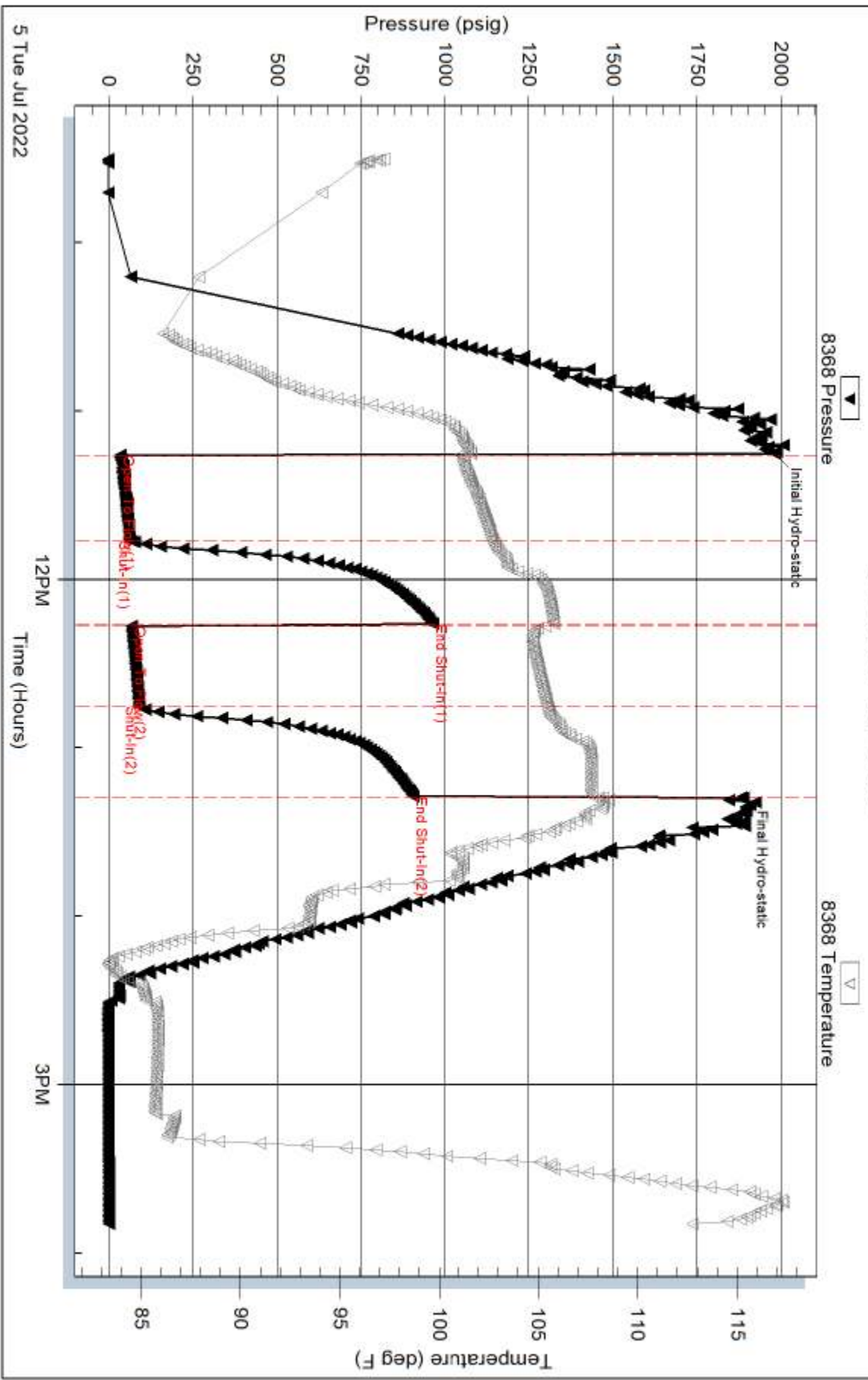
Inside

Palomino Petroleum

Lineight #1

DST Test Number: 5

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 59520

Printed: 2022.07.05 @ 16:43:22

