

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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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: 3/22/2022  
 Invoice #: 0359571  
 Lease Name: Legend  
 Well #: 1 (New)  
 County: Barton, Ks  
 Job Number: WP2558  
 District: Pratt

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	300.000	20.700	6,210.00
Calcium Chloride	846.000	0.690	583.74
8 5/8" Top rubber plug	1.000	161.000	161.00
Light Eq Mileage	75.000	1.840	138.00
Heavy Eq Mileage	150.000	3.680	552.00
Ton Mileage	1,058.000	1.380	1,460.04
Cement Blending & Mixing	300.000	1.288	386.40
Depth Charge 0'-500'	1.000	920.000	920.00
Cement Data Acquisition	1.000	230.000	230.00
Cement Plug Container	1.000	230.000	230.00
Service Supervisor	1.000	275.000	275.00

**Total** 11,146.18

**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!**



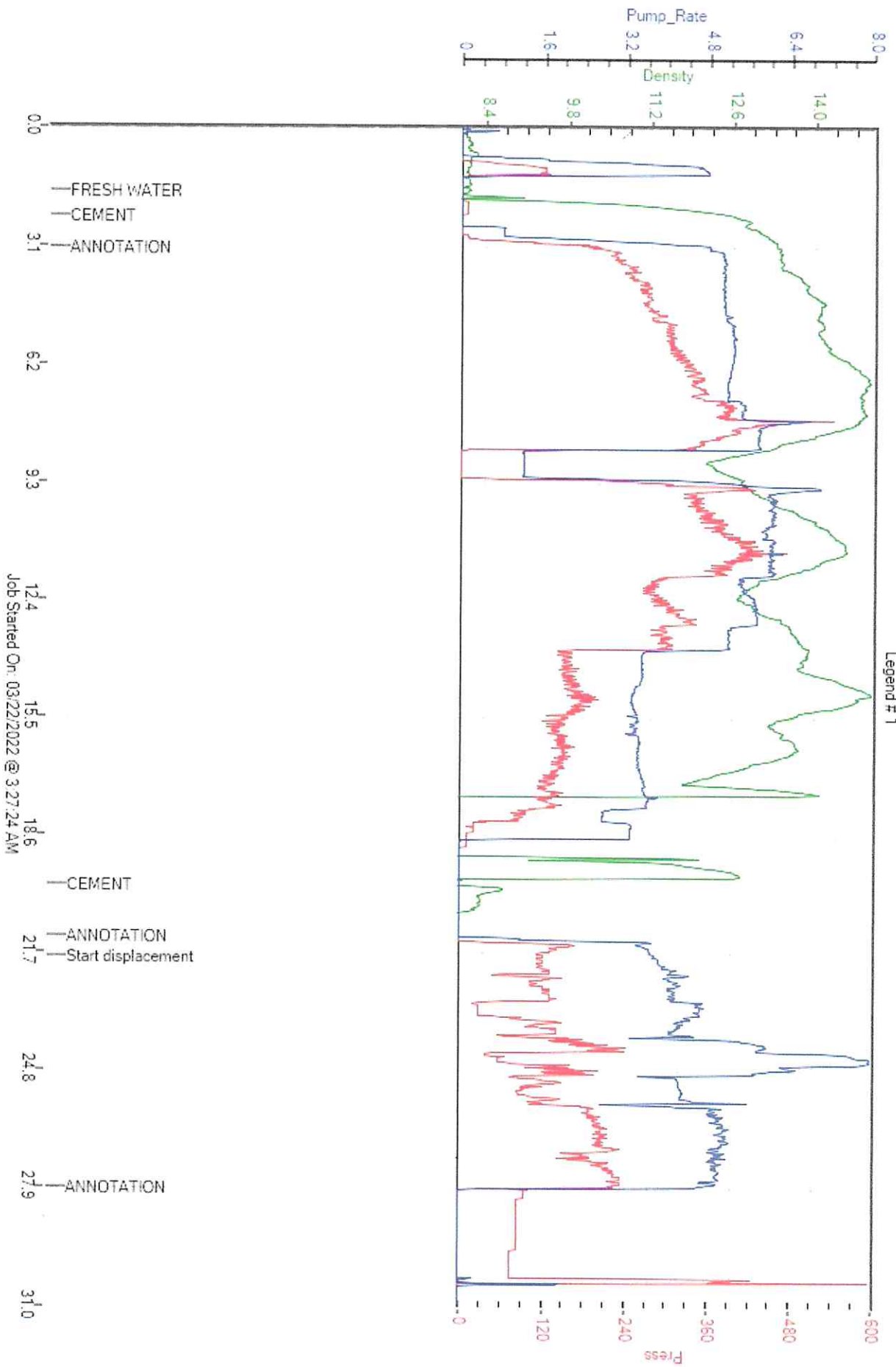
Customer: <b>Palomino Petroleum</b>		Lease & Well #: _____		Legend # 1		Date: <b>3/22/2022</b>	
Service District: <b>Pratt Kansas</b>		County & State: <b>Barton Kansas</b>		Legals S/T/R: <b>25-16s-13w</b>		Job #: _____	
Job Type: <b>Surface</b>		<input checked="" type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> SWD		New Well? <input checked="" type="checkbox"/> YES <input type="checkbox"/> No		Ticket #: <b>wp 2558</b>	
Equipment #	Driver	<b>Job Safety Analysis - A Discussion of Hazards &amp; Safety Procedures</b>					
<b>916</b>	<b>M Brungardt</b>	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging		
<b>523/522</b>	<b>R Osborn</b>	<input type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection		
<b>526/256</b>	<b>G Scott</b>	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations		
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations		
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below			
<b>Comments</b>							
Product/ Service Code	Description	Unit of Measure	Quantity	Net Amount			
cp015	H-325	sack	300.00				\$6,210.00
cp100	Calcium Chloride	lb	846.00				\$583.74
fe285	8 5/8" Rubber Plug	ea	1.00				\$161.00
m015	Light Equipment Mileage	mi	75.00				\$138.00
m010	Heavy Equipment Mileage	mi	150.00				\$552.00
m020	Ton Mileage	tm	1,058.00				\$1,460.04
c060	Cement Blending & Mixing Service	sack	300.00				\$386.40
d010	Depth Charge: 0'-500'	job	1.00				\$920.00
c035	Cement Data Acquisition	job	1.00				\$230.00
c050	Cement Plug Container	job	1.00				\$230.00
r061	service supervisor	day	1.00				\$275.00
<b>Customer Section: On the following scale how would you rate Hurricane Services Inc.?</b>						Net:	\$11,146.18
Based on this job, how likely is it you would recommend HSI to a colleague? <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Unlikely 1 2 3 4 5 6 7 8 9 10 Extremely Likely				Total Taxable	\$ -	Tax Rate:	
				Sale Tax:	\$ -		
				Total:	\$	11,146.18	
				HSI Representative: <i>Mark Brungardt</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 3/4% 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 *Deon Vasquez*

**CUSTOMER AUTHORIZATION SIGNATURE**

# Palomino petro Legend # 1





P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
3/28/2022	35799

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

**RECEIVED**  
APR 02 2022  
BY: \_\_\_\_\_

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Legend	Barton	Duke Drilling #2	Oil	Development	Long String	David E
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	6.00	300.00
578D-L	Pump Charge - Long String				1	Job	1,500.00	1,500.00
290	D-Air				4	Gallon(s)	42.00	168.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer				8	Each	90.00	720.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	18.00	2,250.00T
325	Standard Cement				100	Sacks	14.50	1,450.00T
284	Calseal				5	Sack(s)	40.00	200.00T
283	Salt				550	Lb(s)	0.25	137.50T
285	CFR-1				50	Lb(s)	5.00	250.00T
276	Flocele				50	Lb(s)	3.00	150.00T
581D	Service Charge Cement				225	Sacks	2.00	450.00
583D	Drayage				575	Ton Miles	1.00	575.00
	Subtotal							9,575.50
	Sales Tax Barton County						7.50%	506.29

*Cement for long string for #1  
3/28*

**We Appreciate Your Business!**

**Total**

\$10,081.79





CHARGE TO: Palumbo Petroleum  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 35799

PAGE 1 OF 3

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Hays KS</u>	# <u>1</u>	<u>Legend</u>	<u>Barber</u>	<u>KS</u>		<u>3/28/22</u>	
2. <u>Ness City KS</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drilling</u>	RIG NAME/NO. <u>R.G # 2</u>	SHIPPED <u>WCT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Leak Strains</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.		
525						50 mi				6.00	300.00
528						Rope Charge - Long Strain	1	EA		1500.00	1500.00
290						D-Air	4	EA		42.00	168.00
221						Liquid Koc	4	BAR		25.00	100.00
281						Mud Flush	500	BAR		1.50	750.00
403						Cement Basket	8	EA	5/1	275.00	2200.00
406						Latch Down Plug & Baffle	1	EA		250.00	250.00
407						Transfer Floor Slab w/ Hard Fill	1	EA		325.00	325.00
409						Turbolizer	8	EA		90.00	720.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

X

DATE SIGNED \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  
 A.M.  P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

TOTAL 10,081.99

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR David Edgerton

APPROVAL

Thank You!





JOB LOG

SWIFT Services, Inc.

DATE: 3/28/22  
 PAGE NO.  
 TICKET NO. 35799

CUSTOMER		WELL NO.		LEASE		JOB TYPE		DESCRIPTION OF OPERATION AND MATERIALS	
PALOMINO Petroleum		#1		LEGEND		LONG STANG			
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)			
				T	C	TUBING	CASING		
	1900								ON location
									5 1/2 x 14 #
									Rtd-3505LTD-3505
									SET @ 3498 Baffle @ 3458
									SMOJET-40.05
									CENTRALIZERS-1,2,3,4,5,6,7,8
	1015								START Running Csg
									BREAK CIRC ON BOTTOM
		2.5	8			0			plug rat hole - 30 sx
		2.5	4			0			plug mouse hole - 15 sx
		6	12			300			pump MUDFLUSH - 500 GAL
		6	20			300			pump KCA SPACER
		6	0						START CMT - 80 sx SMD @ 12.5 <sup>PP</sup>
		5	30						Switch to EA-2 for 100sx @ 15.5 <sup>PP</sup>
		5	54						END CMT
		6.5	0						Drop plug - WASH P&L
	0000	6.5	85			900			START Disp
									LAND plug @ 1500 psi
									Release psi - Dry
									JOB COMPLETE
									Thanks
									DAVID, SETH, & JOHN J.



**PALOMINO PETROLEUM, INC.**

**Scale 1:240 (5"=100') Imperial  
Measured Depth Log**

**Well Name:** Legend 1  
**Well Id:** 15-009-26337  
**Location:** NW SE SE Sec 25 T16S R13W  
**License Number:** 30742  
**Spud Date:** 3/21/22  
**Surface Coordinates:** 38.625416  
-98.702647  
**Region:**  
**Drilling Completed:** 3/28/22  
**Bottom Hole  
Coordinates:**  
**Ground Elevation (ft):** 1932  
**Logged Interval (ft):** 2700  
**Formation:** Arbuckle  
**Type of Drilling Fluid:** Chemical based mud  
**K.B. Elevation (ft):** 1940  
**Total Depth (ft):** 3505'  
**To:** 3505'

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

**Company:** Palomino Petroleum Inc.  
**Address:** 4924 SE 84th St.  
Newton, Ks 67114

**GEOLOGIST**

**Name:** Chad Counts  
**Company:** MG Oil Inc.  
**Address:** P.O. Box 162  
Russell, Ks 67665

**Comments**

Legend #1 was drilled with Duke Drilling (Rig #2) rotary tools commencing 3-21-22, and total depth was reached 3-28-22.

The well ran structurally high as expected from seismic prognosis. Owing to the structural position, oil shows in the Lansing-Kansas City, and the positive results of DST #2 in the Arbuckle; it was elected by the operator to further test the well through 5 1/2" casing.

Before abandonment or depletion of Arbuckle reserves test the following:

Plattsmouth 2984-2986' KB  
Lansing A 3144-3148' KB

Respectfully submitted,

Chad Counts

GENERAL INFORMATION:																									
Formation:	Lansing A-F																								
Deviated:	No Whipstock:	ft (KB)																							
Time Tool Opened:	07:47:00		Test Type: Conventional Bottom Hole (Initial)																						
Time Test Ended:	12:10:40		Tester: Eric Burgess																						
			Unit No: 80																						
Interval:	3132.00 ft (KB) To 3218.00 ft (KB) (TVD)		Reference Elevations: 1940.00 ft (KB)																						
Total Depth:	3218.00 ft (KB) (TVD)		1932.00 ft (CF)																						
Hole Diameter:	7.86 Inches Hole Condition: Fair		KB to GR/CF: 8.00 ft																						
<b>Serial #: 8369</b>	Outside																								
Press@RunDepth:	145.38 psig @	3140.00 ft (KB)	Capacity: 8000.00 psig																						
Start Date:	2022.03.26	End Date: 2022.03.26	Last Calib.: 1899.12.30																						
Start Time:	04:34:50	End Time: 12:10:40	Time On Btm: 2022.03.26 @ 07:46:10																						
			Time Off Btm: 2022.03.26 @ 09:56:59																						
TEST COMMENT: IF:Strong Building Blow built to 28.59" (30) IS:No Blow Back (30) FF:Strong Building Blow built to 35.09" (30) FSt:No Blow Back																									
		PRESSURE SUMMARY																							
		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																				
		0	1558.34	97.80	Initial Hydro-static																				
		1	41.08	97.25	Open To Flow (1)																				
		32	108.13	100.80	Shut-in(1)																				
		65	744.37	102.80	End Shut-in(1)																				
		65	126.47	102.48	Open To Flow (2)																				
		97	145.38	103.45	Shut-in(2)																				
		131	709.80	103.94	End Shut-in(2)																				
		131	1487.10	104.16	Final Hydro-static																				
<table border="1"> <thead> <tr> <th colspan="3">Recovery</th> </tr> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>60.00</td> <td>GWMOO 45%O 10%G 15%W 35%M</td> <td>0.30</td> </tr> <tr> <td>126.00</td> <td>GWMOO 35%O 25%G 15%W 25%M</td> <td>1.84</td> </tr> <tr> <td>63.00</td> <td>GOOM 30%G 15%O 55%M</td> <td>0.92</td> </tr> <tr> <td>32.00</td> <td>OSM 100%M</td> <td>0.47</td> </tr> <tr> <td>0.00</td> <td>1688' GIP</td> <td>0.00</td> </tr> </tbody> </table>		Recovery			Length (ft)	Description	Volume (bbl)	60.00	GWMOO 45%O 10%G 15%W 35%M	0.30	126.00	GWMOO 35%O 25%G 15%W 25%M	1.84	63.00	GOOM 30%G 15%O 55%M	0.92	32.00	OSM 100%M	0.47	0.00	1688' GIP	0.00	Gas Rates		
		Recovery																							
Length (ft)	Description	Volume (bbl)																							
60.00	GWMOO 45%O 10%G 15%W 35%M	0.30																							
126.00	GWMOO 35%O 25%G 15%W 25%M	1.84																							
63.00	GOOM 30%G 15%O 55%M	0.92																							
32.00	OSM 100%M	0.47																							
0.00	1688' GIP	0.00																							
		Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)																					

GENERAL INFORMATION:																
Formation:	Arbuckle															
Deviated:	No Whipstock:	ft (KB)														
Time Tool Opened:	05:32:53		Test Type: Conventional Bottom Hole (Reset)													
Time Test Ended:	12:37:13		Tester: Eric Burgess													
			Unit No: 80													
Interval:	3371.00 ft (KB) To 3403.00 ft (KB) (TVD)		Reference Elevations: 1940.00 ft (KB)													
Total Depth:	3403.00 ft (KB) (TVD)		1932.00 ft (CF)													
Hole Diameter:	7.86 Inches Hole Condition: Fair		KB to GR/CF: 8.00 ft													
<b>Serial #: 8369</b>	Outside															
Press@RunDepth:	939.61 psig @	3372.00 ft (KB)	Capacity: 8000.00 psig													
Start Date:	2022.03.27	End Date: 2022.03.27	Last Calib.: 2022.03.27													
Start Time:	03:11:43	End Time: 12:37:13	Time On Btm: 2022.03.27 @ 05:30:23													
			Time Off Btm: 2022.03.27 @ 06:22:53													
TEST COMMENT: IF:Strong Building Blow built 263.62" (10) IS:Surface Blow Back (15) FF:Strong Building Blow built 196.45" (5) FSt:No Blow Back (15)																
		PRESSURE SUMMARY														
		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation											
		0	1729.85	100.41	Initial Hydro-static											
		3	276.99	109.74	Open To Flow (1)											
		13	771.41	117.18	Shut-in(1)											
		29	1118.53	116.88	End Shut-in(1)											
		29	876.64	116.75	Open To Flow (2)											
		34	939.61	116.71	Shut-in(2)											
		52	1112.07	116.79	End Shut-in(2)											
		53	1660.46	113.65	Final Hydro-static											
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2079.00	Oil 100%O	30.40														
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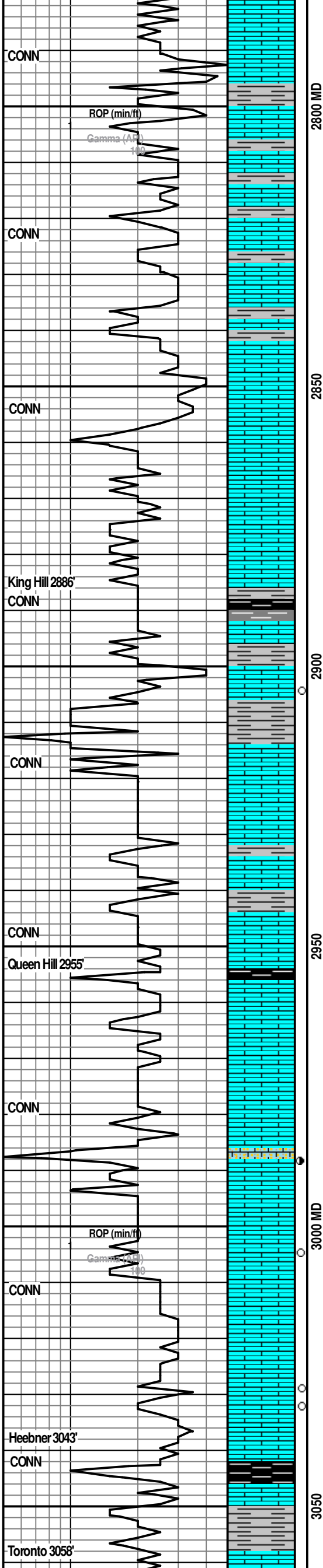
\* Recovery from multiple tests

GENERAL INFORMATION:																																							
Formation:	Arbuckle																																						
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)																																				
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Time Test Ended:	12:37:13		Unit No: 80																																				
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### ROCK TYPES

	Anhy		Coal		Igne		Mrlst		Shgy
	Bent		Oolitic limestone		Dark grey shale		Salt		Sltst
	Brec		Congl		Black shale		New symbol		Ss
	Cht		Dol		Lmst		Shale		Till
	Clyst		Gyp		Meta		Schol		

Curve Track 1		Lithology	Oil Shows	MD	DST	Straddle DST	Porosity Type	Image	Geological Descriptions	Remarks
ROP (min/ft)	Gamma (API)									
				27						3/24/22 9:00pm-Geologist on location.
				2750						MW 8.8 VIS 60 1# LCM



Sh: med grey, smooth, subplaty, soft-mod firm, sl. calc. 10-20% Ls, cream, sl-mod arg, earthy tex, few fossil clasts, no vis por, NSOC.

Ls: 70% cream, grey, buff, micro xln, lith tex-earthly tex, few w. weathered yellow st, sl-mod arg, mod marl, no vis por, NSOC.

Ls: 80%, predom grey, brown, occ cream, micro xln, mod-hvy arg, few clasts, trc plant mat, mod marl, no vis por, NSOC.

Ls: 70% Ls, cream, grey, micro xln, dense, sl. marl cont, trc foss frag, NSOC. Sh: med grey, soft, subplaty, mod firm.

Ls: cream-white, med grey (very dense), micro xln-fn xln, vf spary tex, mod marl, occ fossil frag, poor-no vis por, NSOC.

Ls: 70% beige, grey, cream, micro xln, tr vf xln, poor-no vis por, dense, occ plant mat, sl cherty (grey), NSOC. Sh: med-dk grey, firm, sub platy-platy.

Ls: beige, cream, buff, micro xln-vf xln, common mtd plant mat, occ. fossils (fusulinids), no vis por, NSOC.

Ls: cream, lt grey, vf xln-micro xln, mod marl cont, occ brittle, poor vis por, NSOC. Sh: lt-med grey, mod firm, sub platy, mod calc.

Ls: beige, buff, cream, trc granular tex, no vis por, trc marl, mod arg, occ. mot plant mat. abdnt fossil frag, NSOC.

Ls: buff-beige, grey, micro xln, earthy/gran tex, abdnt foss frag, mod arg, sl-mod marl, no vis por, well cemented, NSOC. 25% Lt grey shale, firm, subplaty, v calc.

Ls: buff, beige, cream, micro xln-fn xln, abdnt fossil frag, mod marl, sl arg, no vis por, NSOC. Trc dk grey and blk shale, firm sub platy mod carb.

Ls: grey cream buff, fine xln-micro xln, trc gran tex, no vis por, NSOC. 30% med grey and black shale.

Ls: cream, brown grey, occ mottled plant mat, few granular tex, occ. wackestone-packstone, abdnt fusulinids, 1-2 cuttings with spotted edge stain, questionable odor. 30% Sh: grey, platy, firm-soft, sl calc.

Ls: beige, lt brown, mod arg, dense, no vis por, abdnt scat fossil frag, NSOC. Sh: med -dk grey, subplaty, firm, sl calc, sl carb.

Ls: grey-brown, micro xln, litho tex, sl arg, occ. fossil frag, NSOC. 20% shale

Ls: lt grey-brown, micro xln-fn xln, mod arg, mod marl, no vis por, NSOC.

Trc black shale <5%, platy, firm, mod carb. Ls: cream, beige, micro xln, litho tex, no vis por, NSOC. 10% grey shale firm, sup platy-platy.

5% black shale a/a, Ls: grey, cream, dense, occ scat pp vug, mod arg, poor vis matrix por, NSOC.

Ls: cream, grey, micro xln, trc oolitic ls <5%, 250-350 microns, no sec por or dis, dense, sl marl, sl arg, NSOC.

Ls: cream, buff, micro xln, <5% oolitic ls, w std 250-350 microns, few cuttings with edge stain, very faint odor, no free oil or fluo.

Plattsmouth porosity (<5%): grey-cream, scattered uneven porosity, few cuttings partially oomoldic w/ partial heavy stain, overall tight, 2 cuttings with even stain and fair-good vuggy por, fair odor, ssfo, slow streaming cut.

Ls: cream, grey, micro xln, occ scatt pp vugs, 1-2 cutting w fair even vuggy por and even s very poor edgy por, vssfo, faint odor.

Ls: cream, grey, white, micro xln, occ fossil frag, granular tex, r pp vug, v poor por, mod marl, NSOC. Abdnt blue grey platy shale (cavings?)

Ls: cream, light grey, micro xln, no vis por, dense, NSOC,

Ls: cream, buff, micro xln, poor-no vis por, very dense, occ. scattered vug w stain, very tight, no free oil, questionable odor.

Flood black shale: firm, platy, carb, gassy, several gas bubbles escaping pores. Ls: cream, grey, micro xln, dns, no vis por, trc foss frag, NSOC. 20% grey shale, subplaty, firm, sl calc, non carb

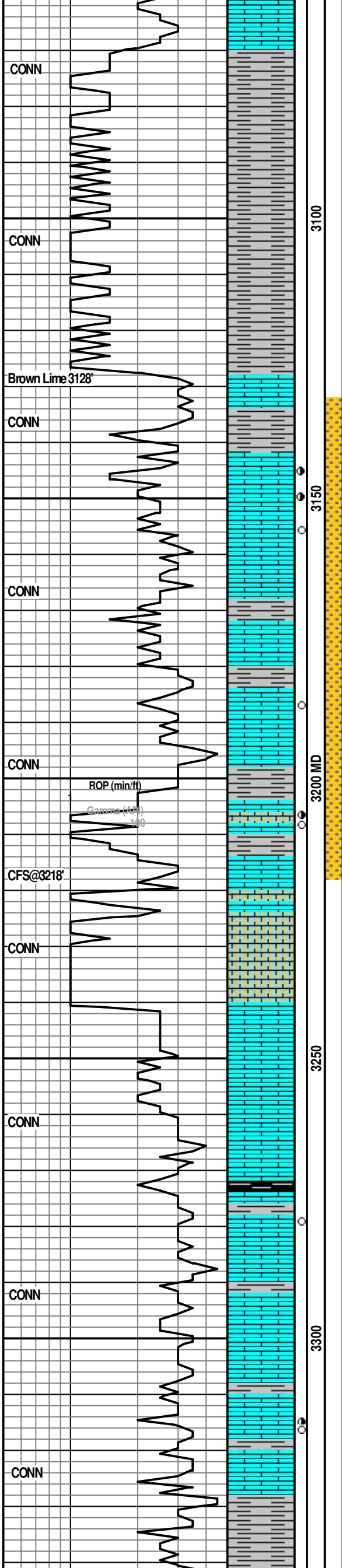
Ls: cream, grey, micro xln, dense, no vis por, occ. foss frag, non arg, NSOC. Sh: light, dove grey, soft-mod firm, non platy.

MW 8.7  
VIS 60  
1# LCM

Mudco check:  
MW 8.8  
VIS 58  
Filtrate 7.2  
Chlorides 7050ppm  
Solids 3.3%  
1# LCM

MW 9.0  
VIS-52  
2# LCM

MW 9.1  
VIS 53  
1.5# LCM



Ls: cream, white, micro xln, even fract, no vis por, dense, mod marl, non arg, NSOC.

Ls: cream, white, micro xln, mod marl, dense, NSOC. 20% grey-lt green shale: soft, smooth, non calc, non platy.

Maroon/brick red shale, heavily washed, non platy, soft, mushy. Grey-lt green shale, soft, non silty, non platy.

Light grey shale: occ. silty/sandy, poorly cons, most soft smooth, non silty. NS.

Dove grey-green grey shale, occ sandy, mod cons, blocky, micaceous, no por. Most soft smooth, non platy.

Dove grey shale: silty-vfg sand, well std, well cons, no por, micaceous.

Sh: lt-med grey, occ silty, sub platy, firm-abdnt grey wash and soft, non calc.

Ls: grey, beige, lt brown, micro xln, dense, no vis por, mod arg, sharp cleavage. NSOC. 40% Shale a/a.

Lansing A porosity (<5% sample): Vf oolitic ls, 250-350 microns, well std, scattered secondary porosity, with fair lt golden stain, svrl partial scat vugs, fair-good odor, sfo on cup, ssfo in por, fair streaming cut.

<5% oolitic limestone a/a, vf, well cons, very poor sec por, scat pp vugs, fair oil ofor, scat sat and stain, ssfo.

Ls: cream, buff, micro xln, sl-mod marl, very dense, r fos clast, no vis por, 2 cuttings with edge stain, NSFOC.

Ls: cream, buff, micro xln, trc, vf oolitic ls, no vis sec por, NSOC. Sh: med grey, subplaty, firm,

Ls: cream, buff, micro xln matrix, r. scattered pp vug w/ lt stain, very dense, no show free oil, questionable odor. No cut.

Ls: cream, lt grey, micro xln, no vis por, occ. litho tex, NSFOC. no odor.

Sh: med grey-green, sub platy. Ls: cream, white, litho tex, no vis por, NSOC.

KC F Oolitic ls: 250-450 microns, poorly std, most show v poor secondary porosity, v rare saturation and stain, few cuttings with scattered saturated stain, weak odor, vssfo.

Oolitic ls: cream, white, 250-500microns, mod std, good oomoldic por, sl marl, occ no sec por, well cemented, poor vuggy por, barren, NSOC.

Oolitic ls: white, cream, sl marl, scat oomoldic por, trc vuggy por, 250-350 microns, barren, NSFOC.

Oolitic ls a/a. 25% Ls: cream, beige, micro xln, hevay marl, no vis por. NSOC.

Ls: lt grey-cream, micro xln, dense, sharp even cleavage, litho tex, sl marl, no vis por, NSOC.

5% Black shale, platy, mod carb, sl calc, several gas bubbles seeping, 20% lt grey shale, soft, mushy, non calc, 75% Ls: lt grey, beige, micro xln, dense, mod arg, occ. fossil frag, NSOC.

Ls: cream, lt grey, beige, micro xln, occ oolitic grainstone, no vis sec por, 1 cutting w/ sl stain, very tight, no free oil or cut, no odor.

Ls: cream, white, lt grey, micro xln, mod marl, trc oolitic packstone, occ. granular tex, no sec por, very dense, 1 cutting found w/trc stain, no odor or free oil.

Ls: cream, lt grey, micro xln, sl arg, occ. fossil fragment, no vis por, very dense. 5% green-grey shale, soft, smooth, non platy.

Ls: grey, cream, micro xln, no vis por, v dense, occ rare clast, NSOC. Trc lt grey-green shale

Ls: cream-white, micro xln, very dense, <1% w/ wide scattered microscopic vugs, very poor por, very slight scat dk black stain and sat, no show free oil, no odor.

Ls: cream-grey, micro xln v dense, sl arg, no vis por. 25% light grey shale, soft smooth, mushy, non platy.

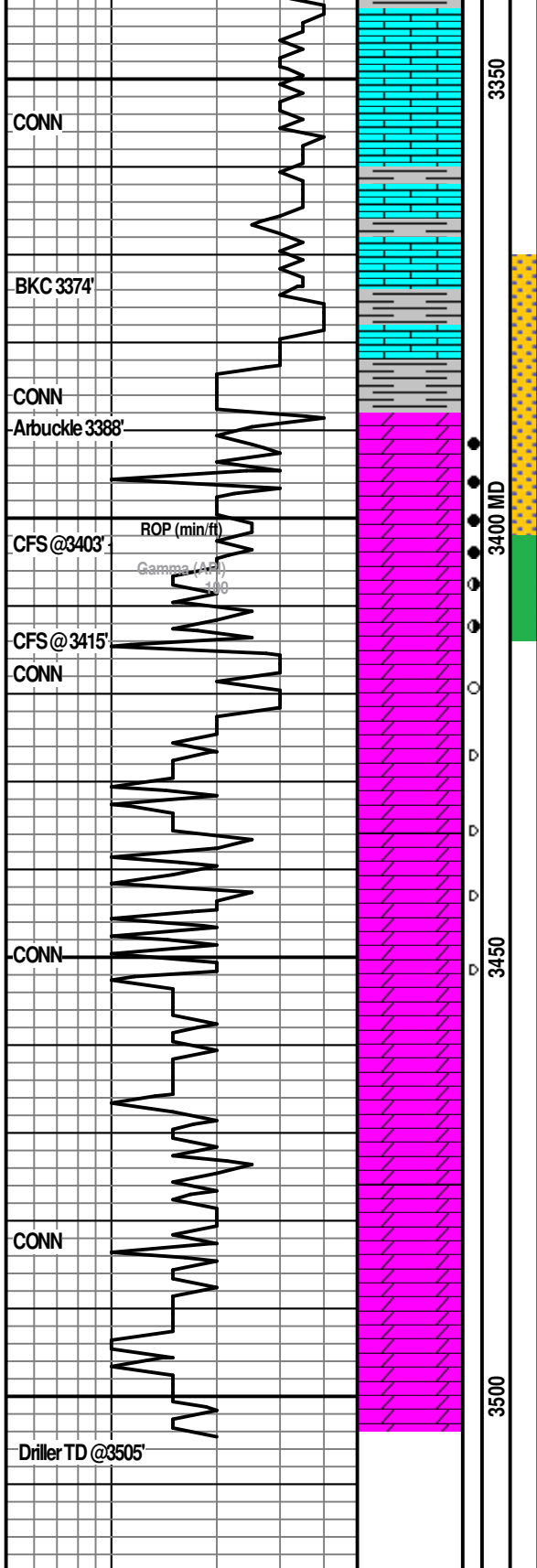
Ls: cream, micro xln, no vis por, dense, NSOC. Sh: lt grey, soft, mushy-subplaty, non calc.

Sh: light grey, soft, mushy, easily washed. Ls: cream, lt grey,

DST #1  
Lans A-KC F  
3132-3218  
30-30-30-30  
IFP:41-108psi  
ISIP: 744psi  
FFP:126-145psi  
FSIP:710psi  
Recovered:  
60' GWMCO  
(45%O, 15%W)  
126' GWMCO  
(35%O, 15%W)  
63' GOCM  
(15%O, 55%M)  
32' OSM  
564' GIP

Mudco  
MW 9.3  
VIS 53  
Filtrate 9.2  
Chloride: 7450ppm  
1# LCM

MW 9.2  
VIS 65  
Trc LCM



micro xln, trc oolitic ls, no sec por, dense, sharp cleavage, no vis por, NSOC.

Ls: lt grey-lt brown-beige, micro xln-occ. very fn xln, no vis por, sharp fracture, litho tex, sl. cherty, NSOC.

Ls: cream, buff, lt grey, micro xln, no vis por, sl-mod marl, NSOC.

Ls: cream-buff, micro xln, occ. rr scat fn xln. por, mod marl NSOC. Trc mottled red shale

Ls: cream, beige, brown, micro xln, occ oolitic, no sec por, very dense, NSOC Trc chert, vari colored shale, maroon, teal, grey.

3403'-20" sample: Dolomite: light brown, fine xln, fair pp vuggy por, trc oolitic dolomite (500 micron white ooids) poor-fair oolitic por. Good light even stain, fair saturation, strong odor.

3403'-40" sample: Dolomite: light brown, fine xln-med xln, fair inxl por,, occ. scat vugs, good light brown stain, poor-fair sat, fair-good odor.

3415'-20" : Dolomite-beige-lt brown, fine, sparry, fair-good vuggy porosity, light scattered saturation and stain. 2 cuttings w/coarse sparry calc, crystals up to 500 microns, good inxl por, heavy sat stain. Weak-fair odor in sample.

3415'-40" Dolomite: v lt beige, fn sparry xls, fair-good inxl por, excellent vuggy porosity, very lt saturation and stain, vssfo, weak-fair odor.

Dolomite: beige, cream, buff, fn xln, fair inxl por, occ sparry, spotty scat oil stain, NSFOC.

Dolomite: buff, white, very fine-fine xln, r sparry dolo, poor-fair inxl por, 2-3 cutting w dead scat stain, NSFOC.

Dolomite: beige, lt brown, fn-med xln, fair-good inxl por, occ sparry, fair-good vuggy por, trc dead stain, fair sulfur odor.

Dolomite: beige, off white, fn-med sparry dolo, good inxl por, excellent vuggy por, abndnt pyrite, trc chert, trc dead stain, fair sulfur odor.

Dolomite: beige, off white, fn-med sparry dolo, excellent vuggy por, NSOC.

Dolomite: beige-off white, fn-med xln, sparry dolo, good inxl por, excellent vuggy por, NSOC.

Dolomite: beige, light grey-off white, fn-coarse xln, sparry dolo, excellent inxl and vuggy por, NSOC.

Dolomite: light grey, beige, fn-med xln, good vuggy por and inxl por, occ. pyrite, NSOC.

MW 9.3  
 VIS 54  
 TRC LCM

Mudco  
 MW 9.45  
 Vis 56  
 Filtrate 8.4  
 Chlorides 9100ppm  
 1# LCM

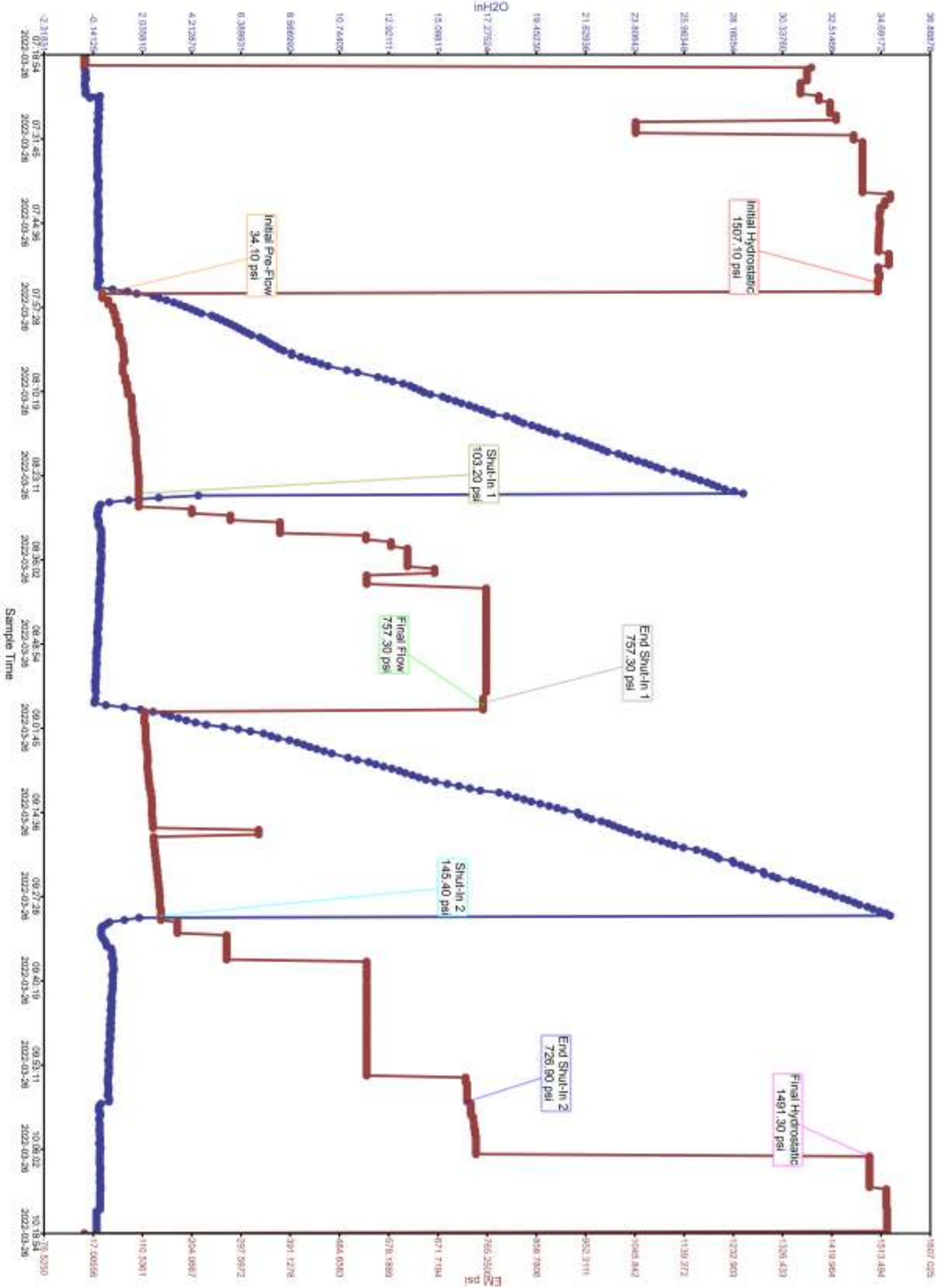
\*Rough drilling at 3390'  
 DST#2  
 Arbuckle  
 3371-3403'  
 10-15-5-15  
 IFP 277-771psi  
 ISIP 1118psi  
 FFP 876-939psi  
 FSIP 1112psi  
 Recovered  
 2139' Oil  
 Gravity=36 @60F

DST #3  
 Arbuckle  
 3403'-3415'  
 5-15-5-15  
 IFP 729-811psi  
 ISIP 1139psi  
 FFP 809-865psi  
 FSIP 1133psi  
 Recovered:  
 126' WMCO  
 45%O, 30%W  
 126' WMCO  
 65%O, 30%W  
 126' WCO  
 60%O 40%W  
 Circulated 700' OCW  
 30%O, 70%W  
 Circulated 300' OCW  
 10%O 90%W

TD Reached 8:30am  
 3/28/22



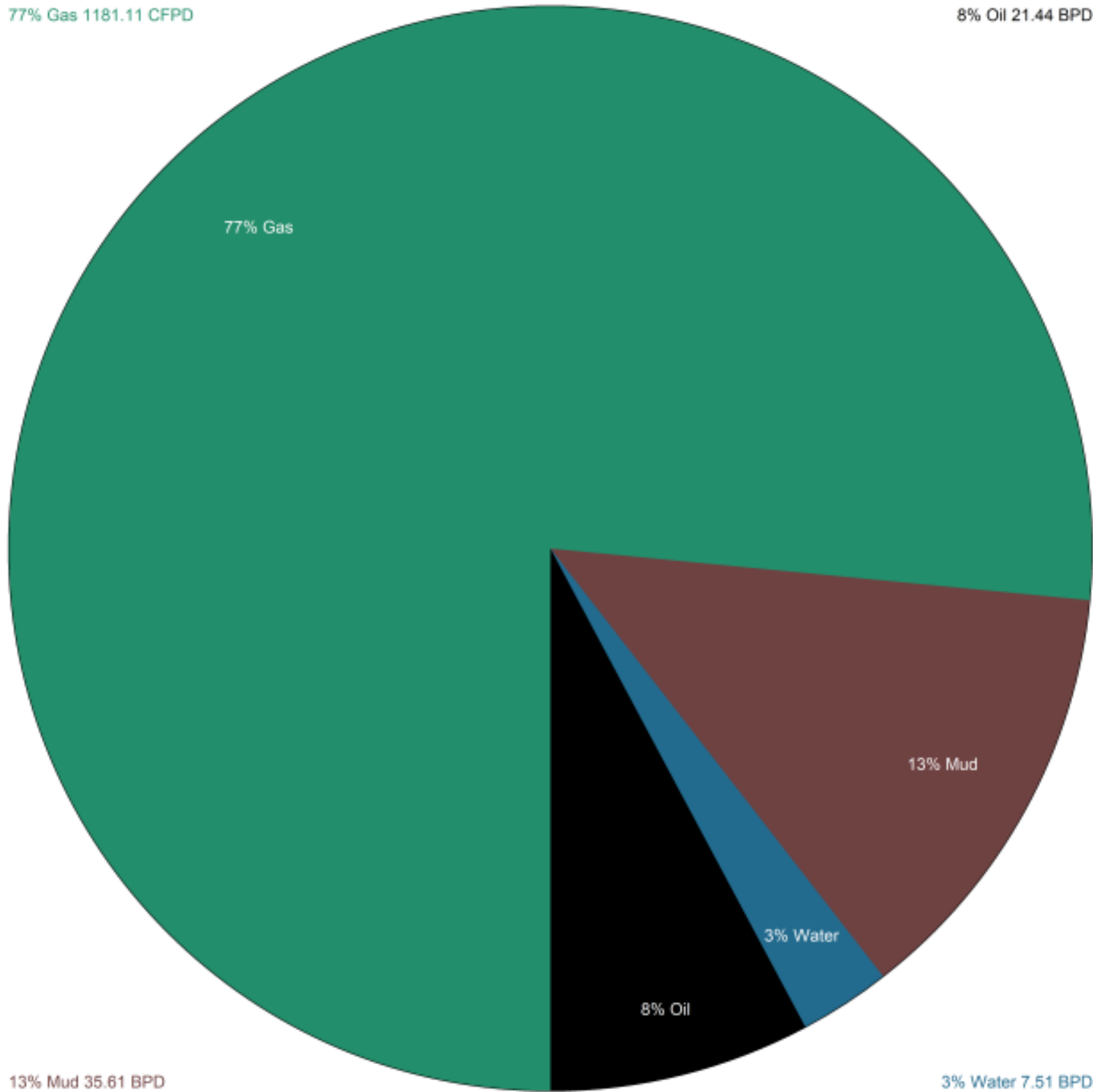
# Palomino Petroleum - Legend 1 - Dst #1



Calculated Recovery Analysis - Palomino Petroleum - Legend 1 - Dst #1

77% Gas 1181.11 CFPD

8% Oil 21.44 BPD



77% Gas

13% Mud

3% Water

8% Oil

13% Mud 35.61 BPD

3% Water 7.51 BPD



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton, KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67621

**DST#: 1**

ATTN: Chad Counts

Test Start: 2022.03.26 @ 04:34:50

## GENERAL INFORMATION:

Formation: **Lansing A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:00

Time Test Ended: 12:10:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 3132.00 ft (KB) To 3218.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3218.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 145.38 psig @ 3140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.26

End Date:

2022.03.26

Last Calib.: 1899.12.30

Start Time: 04:34:51

End Time:

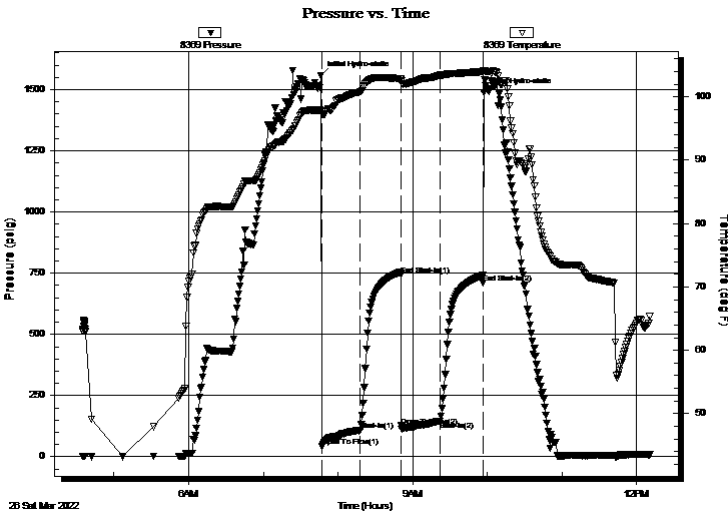
12:10:40

Time On Btm: 2022.03.26 @ 07:46:10

Time Off Btm: 2022.03.26 @ 09:56:59

**TEST COMMENT:** IF:Strong Building Blow built to 28.59" (30)  
IS:No Blow Back (30)  
FF:Strong Building Blow built to 35.09" (30)  
FS:No Blow Back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.34	97.80	Initial Hydro-static
1	41.08	97.25	Open To Flow (1)
32	108.13	100.80	Shut-In(1)
65	744.37	102.80	End Shut-In(1)
65	126.47	102.48	Open To Flow (2)
97	145.38	103.45	Shut-In(2)
131	709.80	103.94	End Shut-In(2)
131	1487.10	104.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWMCO 45%O 10%G 15%W 35%M	0.30
126.00	GWMCO 35%O 25%G 15%W 25%M	1.84
63.00	GOCM 30%G 15%O 55%M	0.92
32.00	OSM 100%M	0.47
0.00	564' GIP	0.00

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Palomino Petroleum  
 4924 SE 84th ST  
 Newton, KS. 67114  
 ATTN: Chad Counts

**25-16S-13W Barton, KS**

**Legend #1**

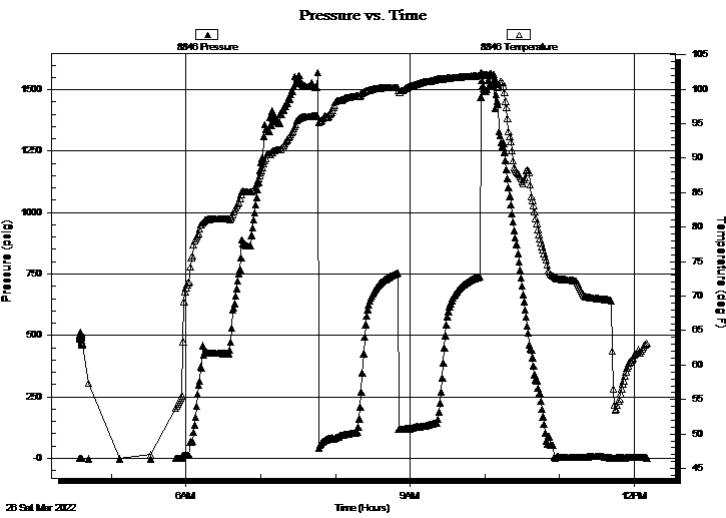
Job Ticket: 67621      **DST#: 1**  
 Test Start: 2022.03.26 @ 04:34:50

**GENERAL INFORMATION:**

Formation: **Lansing A-F**  
 Deviated: No Whipstock:                       ft (KB)  
 Time Tool Opened: 07:47:00  
 Time Test Ended: 12:10:40  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Eric Burgess  
 Unit No: 80  
 Interval: **3132.00 ft (KB) To 3218.00 ft (KB) (TVD)**  
 Total Depth: 3218.00 ft (KB) (TVD)  
 Reference Elevations: 1940.00 ft (KB)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 8846**      **Outside**  
 Press@RunDepth:                       psig @ 3140.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.03.26      End Date: 2022.03.26      Last Calib.: 1899.12.30  
 Start Time: 04:34:30      End Time: 12:10:29      Time On Btm:  
    Time Off Btm:

TEST COMMENT: IF: Strong Building Blow built to 28.59" (30)  
 IS: No Blow Back (30)  
 FF: Strong Building Blow built to 35.09" (30)  
 FS: No Blow Back



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	GWMCO 45%O 10%G 15%W 35%M	0.30
126.00	GWMCO 35%O 25%G 15%W 25%M	1.84
63.00	GOCM 30%G 15%O 55%M	0.92
32.00	OSM 100%M	0.47
0.00	564' GIP	0.00

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67621

**DST#: 1**

ATTN: Chad Counts

Test Start: 2022.03.26 @ 04:34:50

## 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:

22000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7050.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GWMCO 45%O 10%G 15%W 35%M	0.295
126.00	GWMCO 35%O 25%G 15%W 25%M	1.843
63.00	GOCM 30%G 15%O 55%M	0.921
32.00	OSM 100%M	0.468
0.00	564' GIP	0.000

Total Length: 281.00 ft

Total Volume: 3.527 bbl

Num Fluid Samples: 0

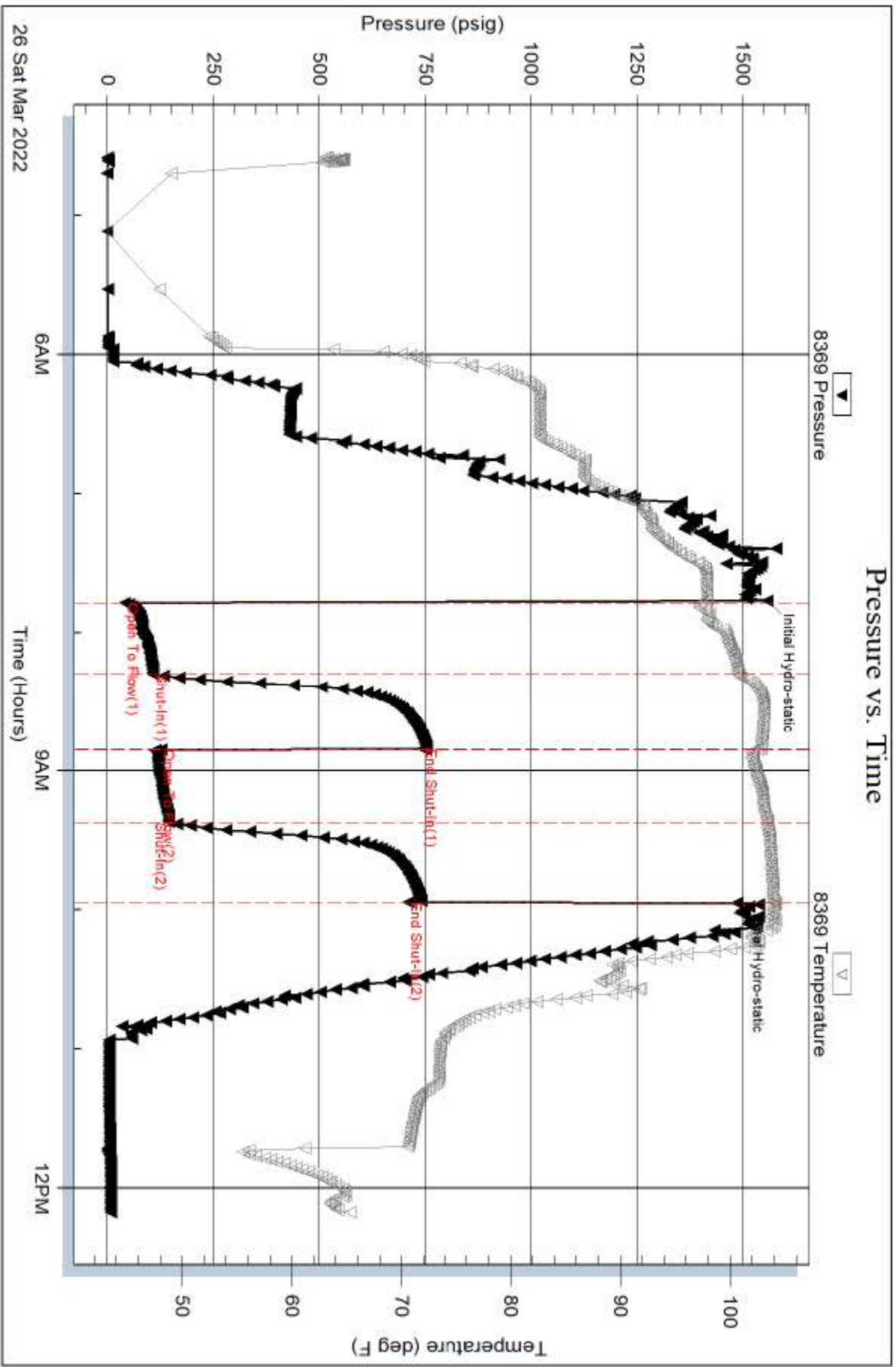
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

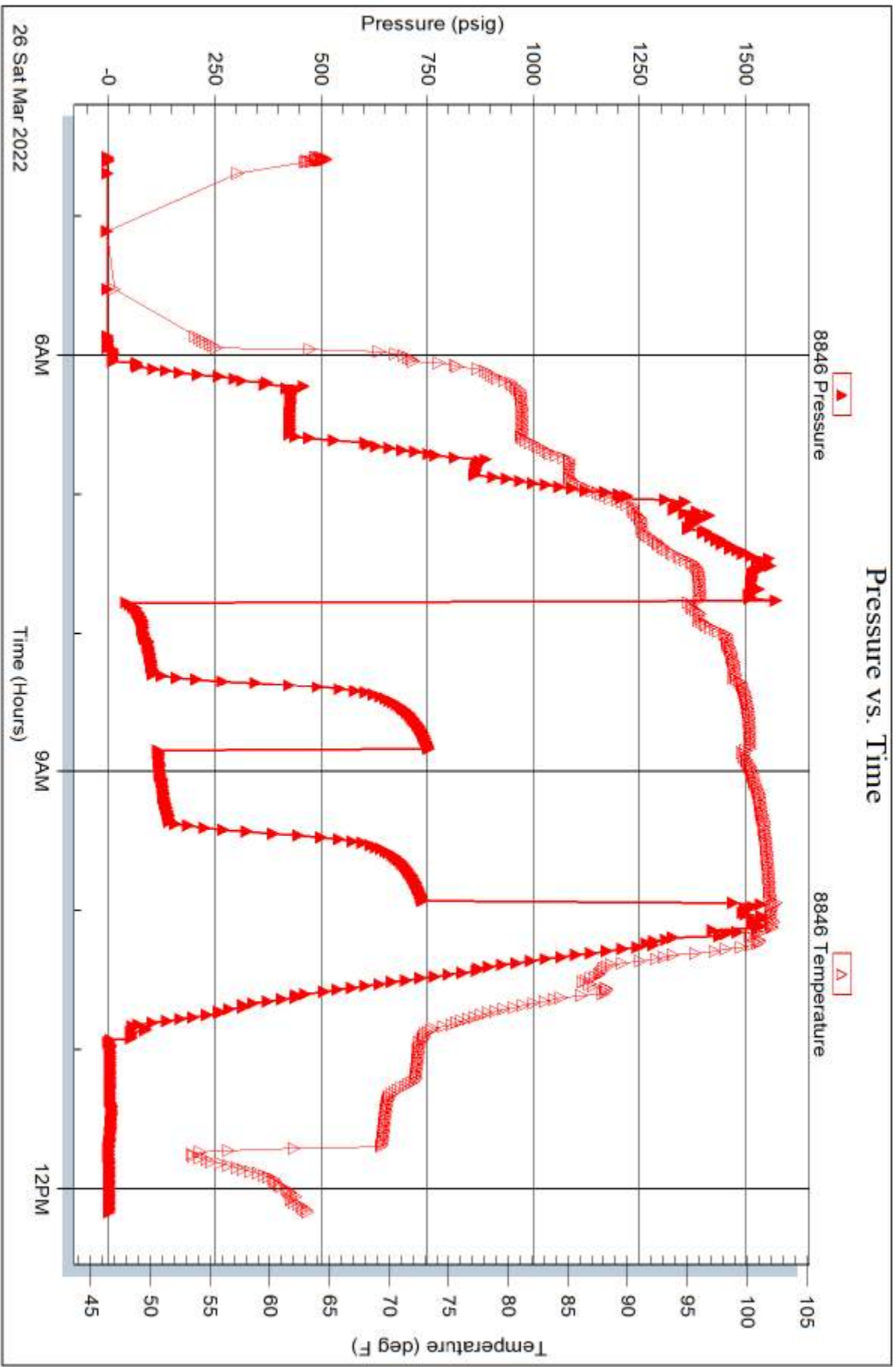


Serial #: 8846

Outside Palomino Petroleum

Legend #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67621

Printed: 2022.03.26 @ 14:31:06



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS. 67114

ATTN: Chad Counts

### Legend #1

#### **25-16S-13W Barton,KS**

Start Date: 2022.03.26 @ 04:34:50

End Date: 2022.03.26 @ 12:10:40

Job Ticket #: 67621                      DST #: 1

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

Printed: 2022.03.31 @ 16:35:53





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67621

**DST#: 1**

ATTN: Chad Counts

Test Start: 2022.03.26 @ 04:34:50

## GENERAL INFORMATION:

Formation: **Lansing A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:00

Time Test Ended: 12:10:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 3132.00 ft (KB) To 3218.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3218.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 145.38 psig @ 3140.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.26

End Date:

2022.03.26

Last Calib.: 2022.03.26

Start Time: 04:34:51

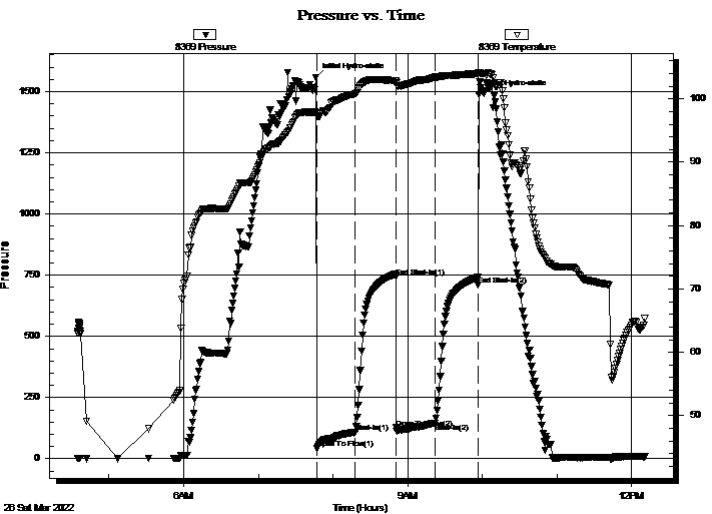
End Time:

12:10:40

Time On Btm: 2022.03.26 @ 07:46:10

Time Off Btm: 2022.03.26 @ 09:56:59

**TEST COMMENT:** IF:Strong Building Blow built to 28.59" (30)  
IS:No Blow Back (30)  
FF:Strong Building Blow built to 35.09" (30)  
FS:No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.34	97.80	Initial Hydro-static
1	41.08	97.25	Open To Flow (1)
32	108.13	100.80	Shut-In(1)
65	744.37	102.80	End Shut-In(1)
65	126.47	102.48	Open To Flow (2)
97	145.38	103.45	Shut-In(2)
131	709.80	103.94	End Shut-In(2)
131	1487.10	104.16	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWMCO 45%O 10%G 15%W 35%M	0.30
126.00	GWMCO 35%O 25%G 15%W 25%M	1.84
63.00	GOCM 30%G 15%O 55%M	0.92
32.00	OSM 100%M	0.47
0.00	564' GIP	0.00

## Gas Rates

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



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

# DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St  
New ton, KS. 67114

ATTN: Chad Counts

**25-16S-13W Barton,KS**

**Legend #1**

Job Ticket: 67621

**DST#: 1**

Test Start: 2022.03.26 @ 04:34:50

## GENERAL INFORMATION:

Formation: **Lansing A-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:00

Time Test Ended: 12:10:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Eric Burgess

Unit No: 80

**Interval: 3132.00 ft (KB) To 3218.00 ft (KB) (TVD)**

Total Depth: 3218.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1940.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8846** Outside

Press@RunDepth: psig @ 3140.00 ft (KB)

Start Date: 2022.03.26 End Date: 2022.03.26

Start Time: 04:34:30 End Time: 12:10:29

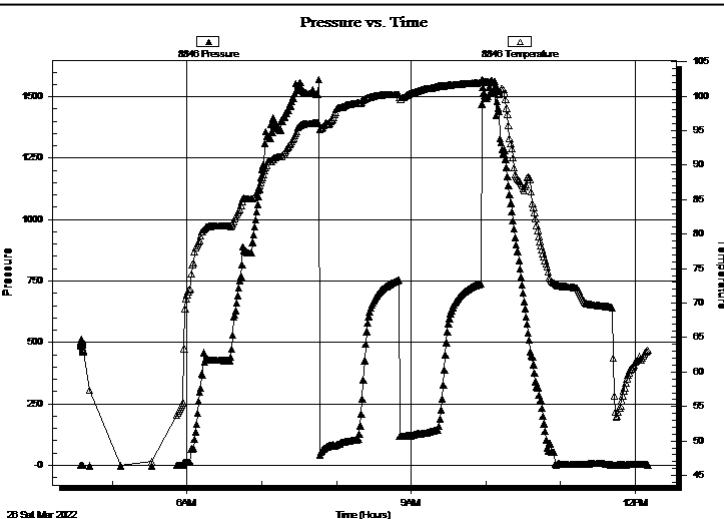
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Strong Building Blow built to 28.59" (30)  
IS:No Blow Back (30)  
FF:Strong Building Blow built to 35.09" (30)  
FS:No Blow Back



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GWMCO 45%O 10%G 15%W 35%M	0.30
126.00	GWMCO 35%O 25%G 15%W 25%M	1.84
63.00	GOCM 30%G 15%O 55%M	0.92
32.00	OSM 100%M	0.47
0.00	564' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67621

**DST#: 1**

ATTN: Chad Counts

Test Start: 2022.03.26 @ 04:34:50

## Tool Information

Drill Pipe:	Length: 3065.00 ft	Diameter: 3.88 inches	Volume: 44.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 45.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3132.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	86.00 ft			
Tool Length:	117.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3102.00	
Shut In Tool	5.00			3107.00	
Hydraulic tool	5.00			3112.00	
Em tool	3.00			3115.00	
Jars	5.00			3120.00	
Safety Joint	3.00			3123.00	
Packer	4.00			3127.00	31.00 Bottom Of Top Packer
Packer	5.00			3132.00	
Stubb	1.00			3133.00	
Perforations	7.00			3140.00	
Recorder	0.00	8369	Outside	3140.00	
Recorder	0.00	8846	Outside	3140.00	
Change Over Sub	1.00			3141.00	
Blank Spacing	63.00			3204.00	
Change Over Sub	1.00			3205.00	
Perforations	10.00			3215.00	
Bullnose	3.00			3218.00	86.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>117.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67621

**DST#: 1**

ATTN: Chad Counts

Test Start: 2022.03.26 @ 04:34:50

## 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:

22000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7050.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GWMCO 45%O 10%G 15%W 35%M	0.295
126.00	GWMCO 35%O 25%G 15%W 25%M	1.843
63.00	GOCM 30%G 15%O 55%M	0.921
32.00	OSM 100%M	0.468
0.00	564' GIP	0.000

Total Length: 281.00 ft

Total Volume: 3.527 bbl

Num Fluid Samples: 0

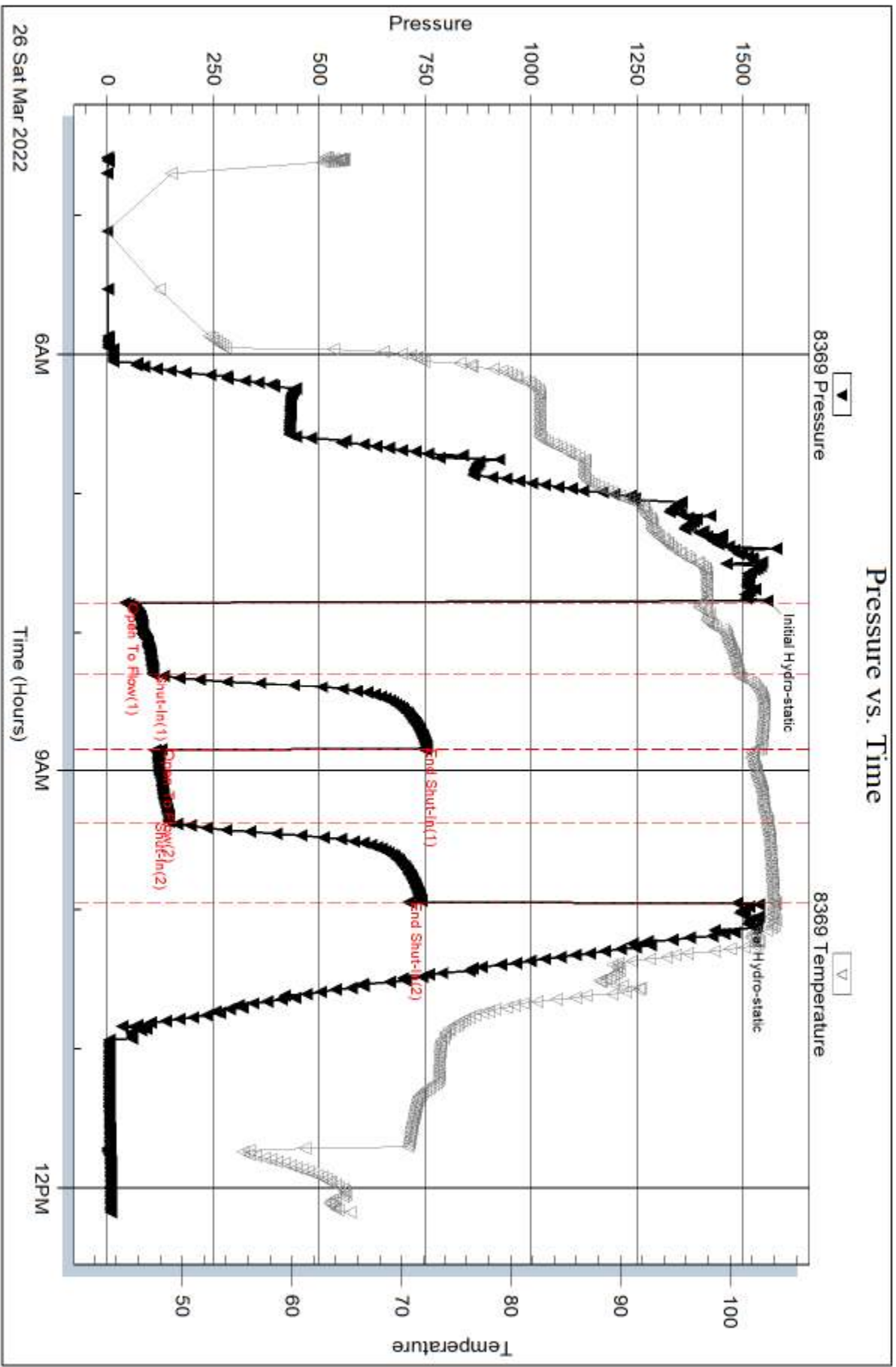
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

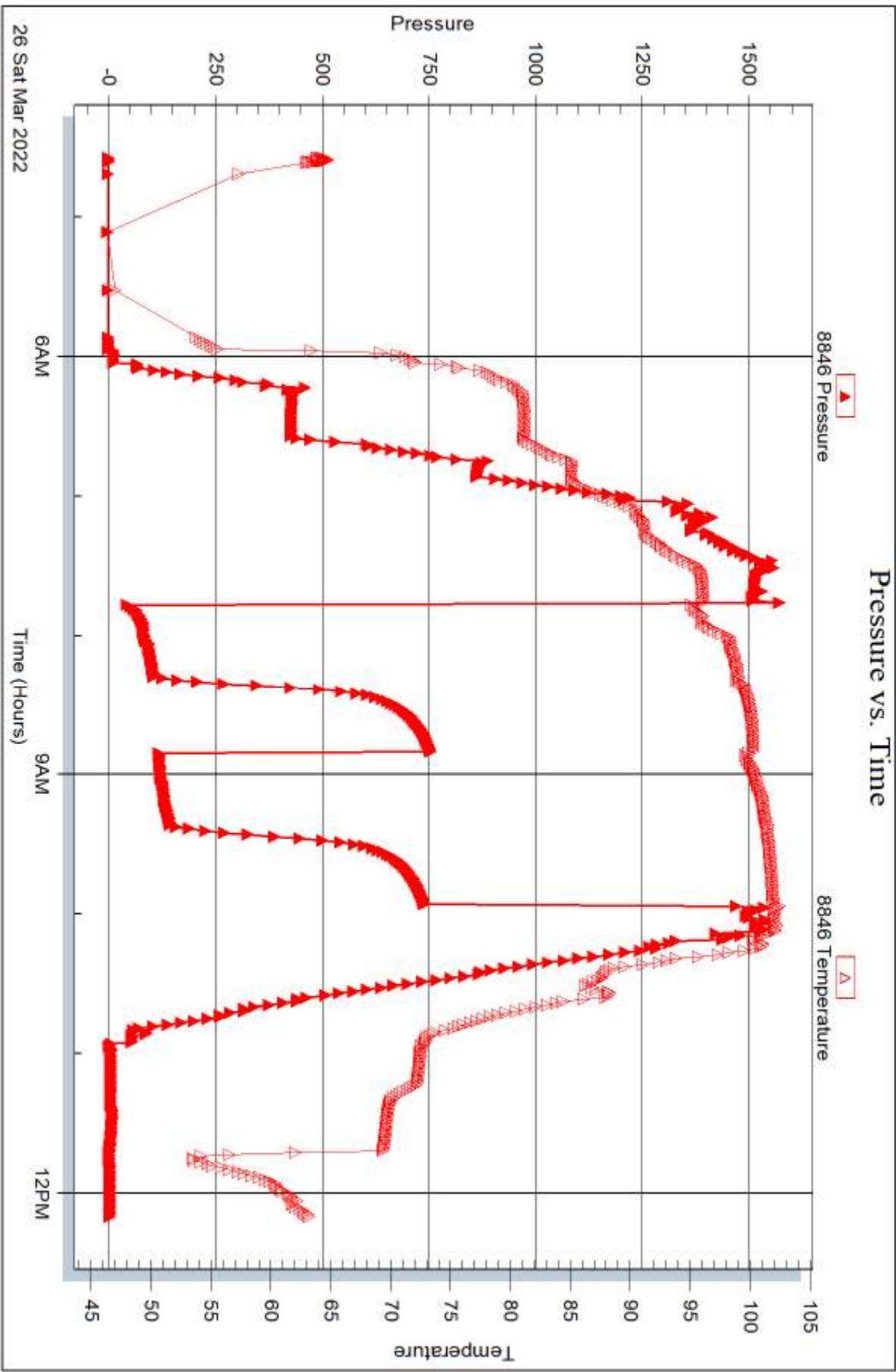


Serial #: 8846

Outside Palomino Petroleum

Legend #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67621

Printed: 2022.03.31 @ 16:35:54



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS. 67114

ATTN: Chad Counts

### **Legend #1**

#### **25-16S-13W Barton,KS**

Start Date: 2022.03.27 @ 03:11:43

End Date: 2022.03.27 @ 12:37:13

Job Ticket #: 67622                      DST #: 2

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

Printed: 2022.03.31 @ 16:29:56



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton, KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67622

**DST#: 2**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 03:11:43

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:53

Time Test Ended: 12:37:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3371.00 ft (KB) To 3403.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3403.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 939.61 psig @ 3372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.27

End Date:

2022.03.27

Last Calib.:

2022.03.27

Start Time: 03:11:44

End Time:

12:37:13

Time On Btm:

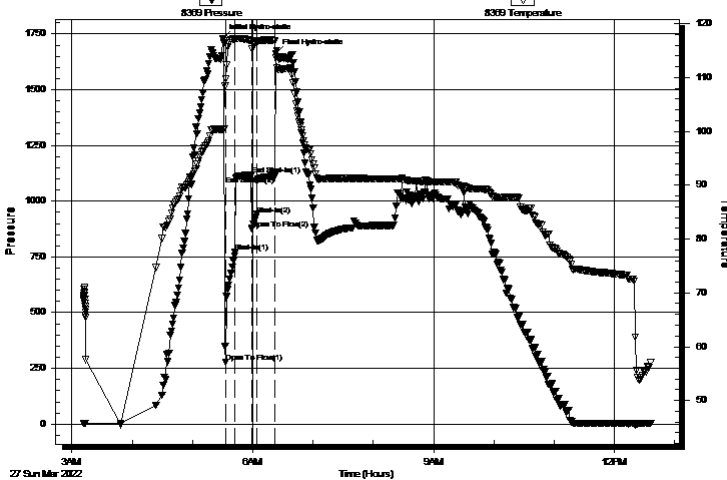
2022.03.27 @ 05:30:23

Time Off Btm:

2022.03.27 @ 06:22:53

TEST COMMENT: IF: Strong Building Blow built 263.62" (10)  
IS: Surface Blow Back (15)  
FF: Strong Building Blow built 196.45" (5)  
FS: No Blow Back (15)

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.85	100.41	Initial Hydro-static
3	276.99	109.74	Open To Flow (1)
13	771.41	117.18	Shut-In(1)
29	1118.53	116.88	End Shut-In(1)
29	876.64	116.75	Open To Flow (2)
34	939.61	116.71	Shut-In(2)
52	1112.07	116.79	End Shut-In(2)
53	1660.46	113.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2139.00	Oil 100%O	30.70

\* 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 84th St  
New ton, KS. 67114  
ATTN: Chad Counts

**25-16S-13W Barton,KS**

**Legend #1**

Job Ticket: 67622      **DST#: 2**  
Test Start: 2022.03.27 @ 03:11:43

**GENERAL INFORMATION:**

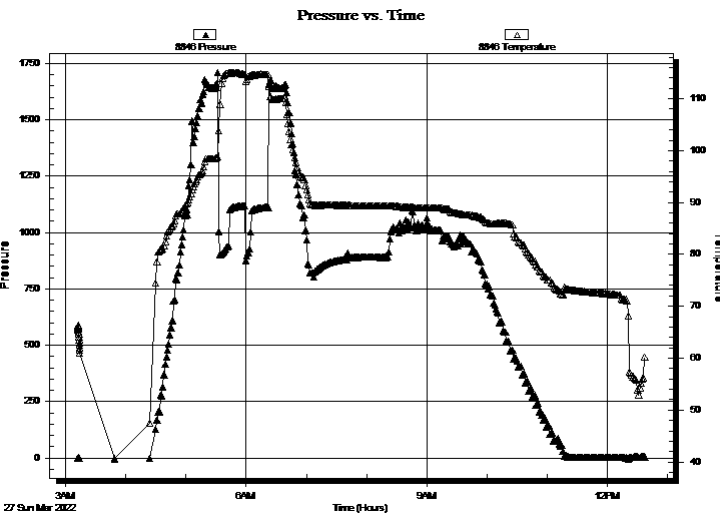
Formation: **Arbuckle**  
Deviated: No    Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 05:32:53      Tester: Eric Burgess  
Time Test Ended: 12:37:13      Unit No: 80  
**Interval: 3371.00 ft (KB) To 3403.00 ft (KB) (TVD)**  
Total Depth: 3403.00 ft (KB) (TVD)      Reference Elevations: 1940.00 ft (KB)  
Hole Diameter: 7.88 inches    Hole Condition: Fair      1932.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 8846**

**Inside**

Press@RunDepth:                      psig @ 3372.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2022.03.27      End Date: 2022.03.27      Last Calib.: 1899.12.30  
Start Time: 03:11:50      End Time: 12:37:29      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF:Strong Building Blow built 263.62" (10)  
IS:Surface Blow Back (15)  
FF:Strong Building Blow built 196.45" (5)  
FS:No Blow Back (15)



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
2139.00	Oil 100%O	30.70

\* 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

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67622

**DST#: 2**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 03:11:43

## Tool Information

Drill Pipe:	Length: 3309.00 ft	Diameter: 3.88 inches	Volume: 48.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 48.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3371.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3341.00	
Shut In Tool	5.00			3346.00	
Hydraulic tool	5.00			3351.00	
Em tool	3.00			3354.00	
Jars	5.00			3359.00	
Safety Joint	3.00			3362.00	
Packer	4.00			3366.00	31.00 Bottom Of Top Packer
Packer	5.00			3371.00	
Stubb	1.00			3372.00	
Recorder	0.00	8369	Outside	3372.00	
Recorder	0.00	8846	Inside	3372.00	
Perforations	28.00			3400.00	
Bullnose	3.00			3403.00	32.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67622

**DST#: 2**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 03:11:43

## 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: bbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 7450.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2139.00	Oil 100%O	30.699

Total Length: 2139.00 ft      Total Volume: 30.699 bbl

Num Fluid Samples: 0

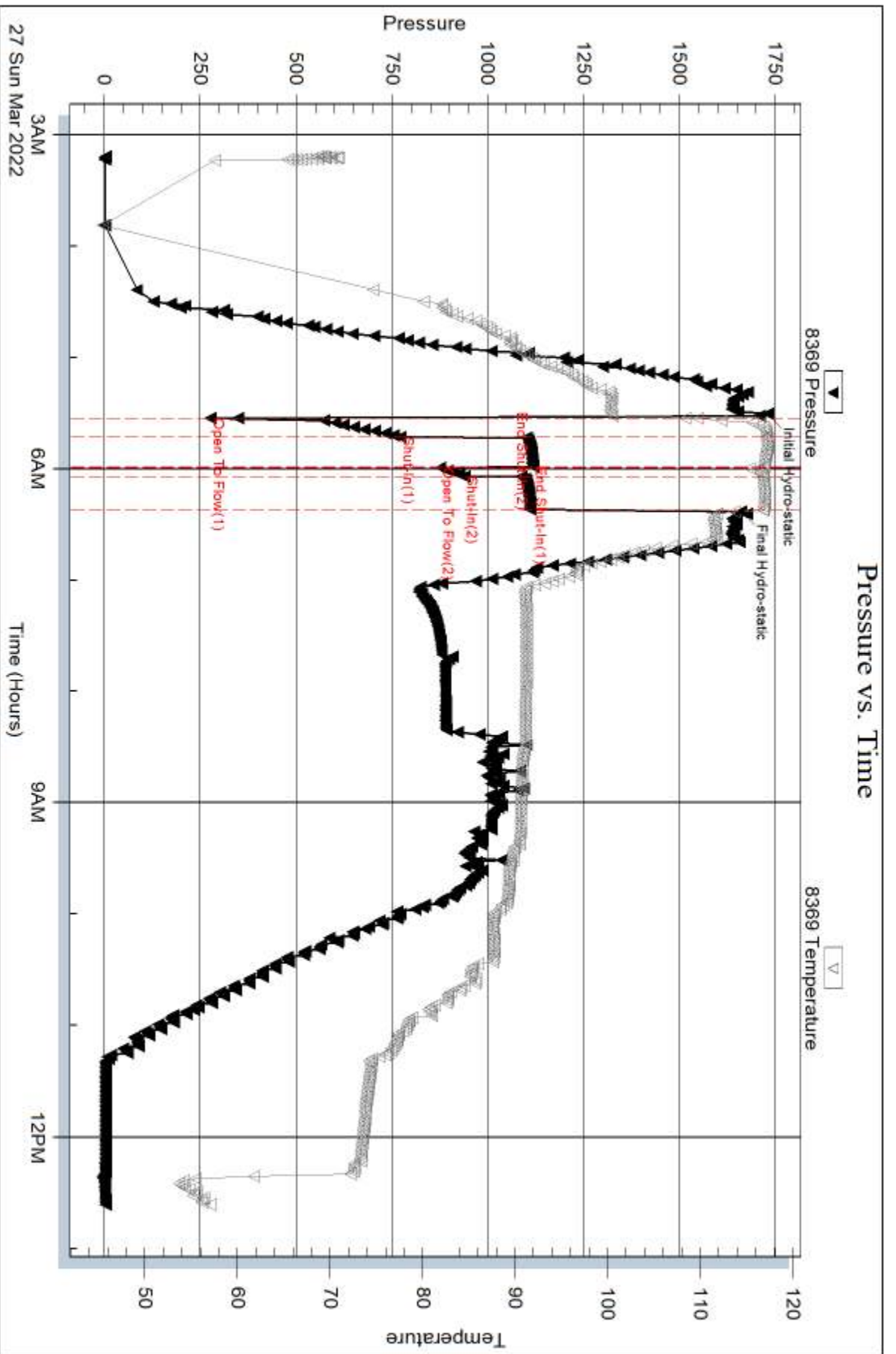
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



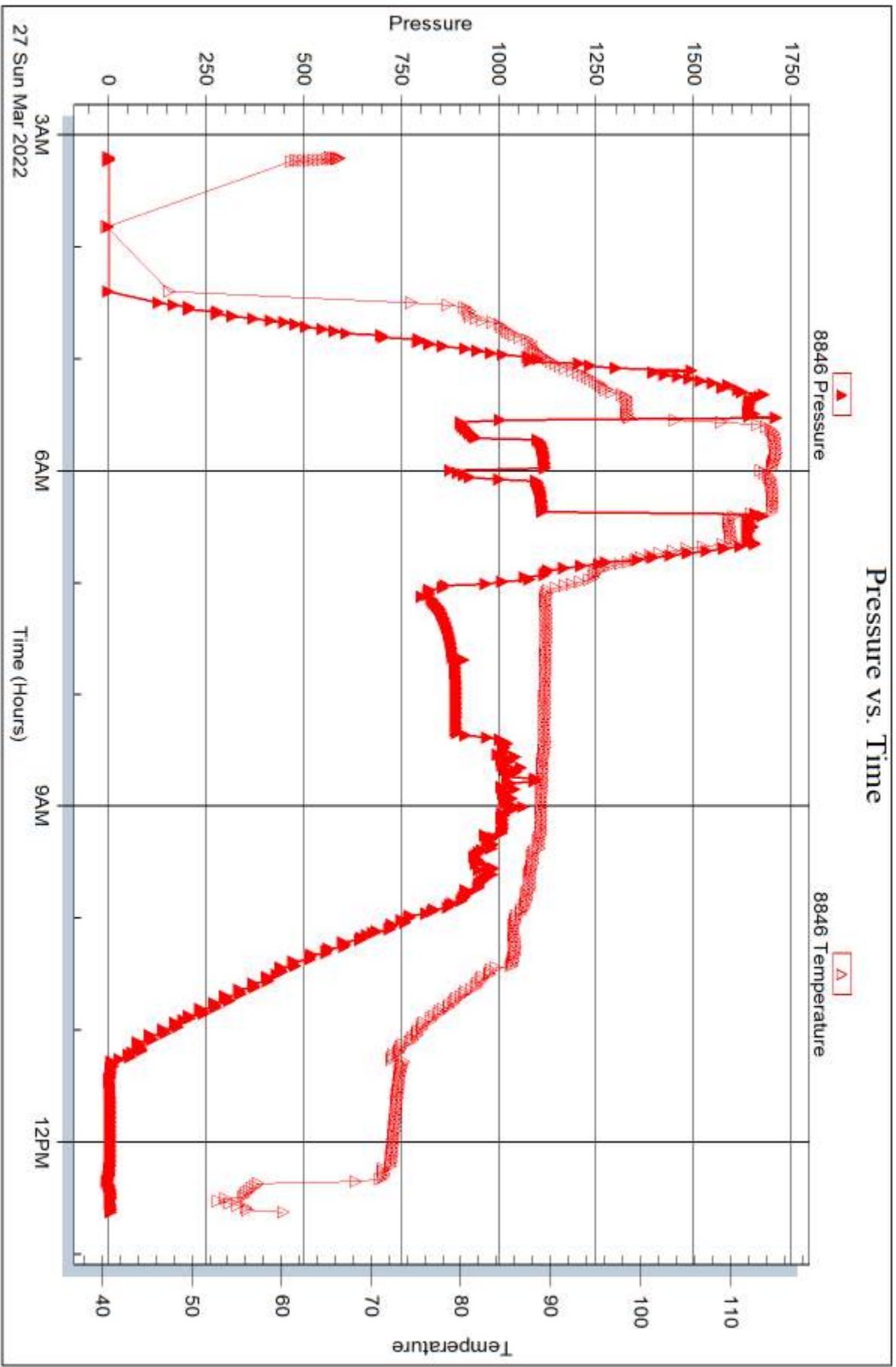
Serial #: 8846

Inside

Palomino Petroleum

Legend #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67622

Printed: 2022.03.31 @ 16:29:57



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS. 67114

ATTN: Chad Counts

### Legend #1

#### 25-16S-13W Barton,KS

Start Date: 2022.03.27 @ 18:40:26

End Date: 2022.03.28 @ 02:04:56

Job Ticket #: 67623                      DST #: 3

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

Printed: 2022.03.31 @ 16:24:29



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton, KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67623

**DST#: 3**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 18:40:26

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:36

Time Test Ended: 02:04:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3403.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 864.77 psig @ 3404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.27

End Date:

2022.03.28

Last Calib.:

2022.03.27

Start Time: 18:40:27

End Time:

02:04:56

Time On Btm:

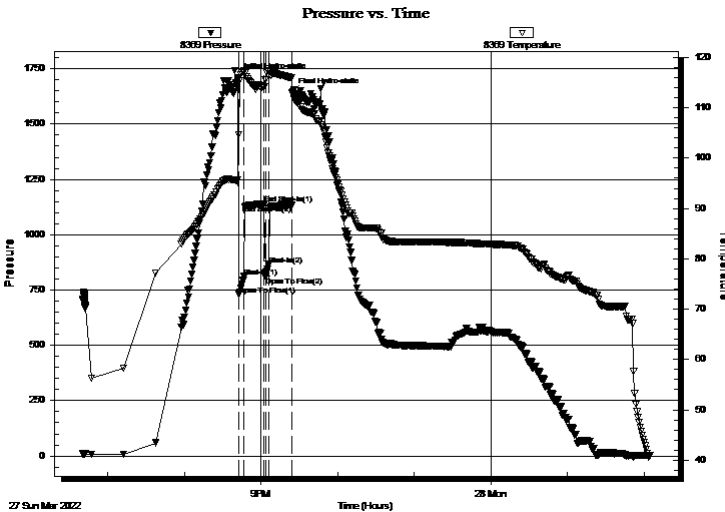
2022.03.27 @ 20:41:46

Time Off Btm:

2022.03.27 @ 21:24:16

**TEST COMMENT:** IF:Strong Building Blow built to 139.80" (5)  
IS:No Blow Back (15)  
FF:Strong Building Blow built to 94.59" (5)  
FS:No Blow Back (15)

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.83	95.67	Initial Hydro-static
1	729.14	104.70	Open To Flow (1)
5	811.06	117.26	Shut-In(1)
21	1138.73	114.20	End Shut-In(1)
22	809.44	115.63	Open To Flow (2)
25	864.77	117.41	Shut-In(2)
43	1132.81	115.96	End Shut-In(2)
43	1642.74	115.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	OCW 10%O 90%W RIT aprox 300'	4.39
708.00	OCW 30%O 70%W RIT aprox 708'	10.35
126.00	WCO 60%O 40%W	1.84
126.00	WMCO 65%O 30%W 5%M	1.84
126.00	WMCO 45%O 30%W 25%M	1.84

## 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 84th St  
New ton, KS. 67114

ATTN: Chad Counts

25-16S-13W Barton, KS

### Legend #1

Job Ticket: 67623

DST#: 3

Test Start: 2022.03.27 @ 18:40:26

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:36

Time Test Ended: 02:04:56

**Interval: 3403.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Total Depth: 3415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

Reference Elevations: 1940.00 ft (KB)

1932.00 ft (CF)

KB to GR/CF: 8.00 ft

### Serial #: 8846

Inside

Press@RunDepth: psig @ 3404.00 ft (KB)

Start Date: 2022.03.27

End Date:

2022.03.28

Start Time: 18:40:59

End Time:

02:05:38

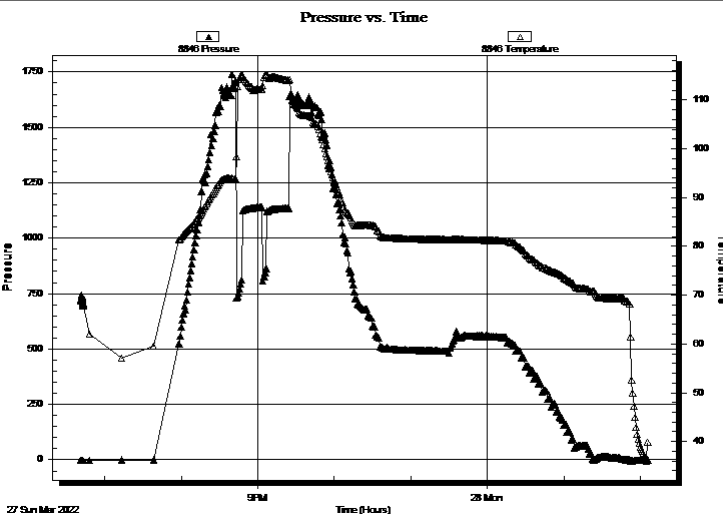
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Strong Building Blow built to 139.80" (5)  
IS:No Blow Back (15)  
FF:Strong Building Blow built to 94.59" (5)  
FS:No Blow Back (15)



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
300.00	OCW 10%O 90%W RIT aprox 300'	4.39
708.00	OCW 30%O 70%W RIT aprox 708'	10.35
126.00	WCO 60%O 40%W	1.84
126.00	WMCO 65%O 30%W 5%M	1.84
126.00	WMCO 45%O 30%W 25%M	1.84

### 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

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67623

**DST#: 3**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 18:40:26

## Tool Information

Drill Pipe:	Length: 3377.00 ft	Diameter: 3.88 inches	Volume: 49.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 24000.00 lb
			<u>Total Volume: 49.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3403.00 ft			Final 47000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3373.00	
Shut In Tool	5.00			3378.00	
Hydraulic tool	5.00			3383.00	
Em tool	3.00			3386.00	
Jars	5.00			3391.00	
Safety Joint	3.00			3394.00	
Packer	4.00			3398.00	31.00 Bottom Of Top Packer
Packer	5.00			3403.00	
Stubb	1.00			3404.00	
Recorder	0.00	8369	Outside	3404.00	
Recorder	0.00	8846	Inside	3404.00	
Perforations	8.00			3412.00	
Bullnose	3.00			3415.00	12.00 Bottom Packers & Anchor

**Total Tool Length: 43.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**25-16S-13W Barton,KS**

4924 SE 84th St  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67623

**DST#: 3**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 18:40:26

### 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:

14000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	OCW 10%O 90%W RIT aprox 300'	4.387
708.00	OCW 30%O 70%W RIT aprox 708'	10.354
126.00	WCO 60%O 40%W	1.843
126.00	WMCO 65%O 30%W 5%M	1.843
126.00	WMCO 45%O 30%W 25%M	1.843

Total Length: 1386.00 ft

Total Volume: 20.270 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

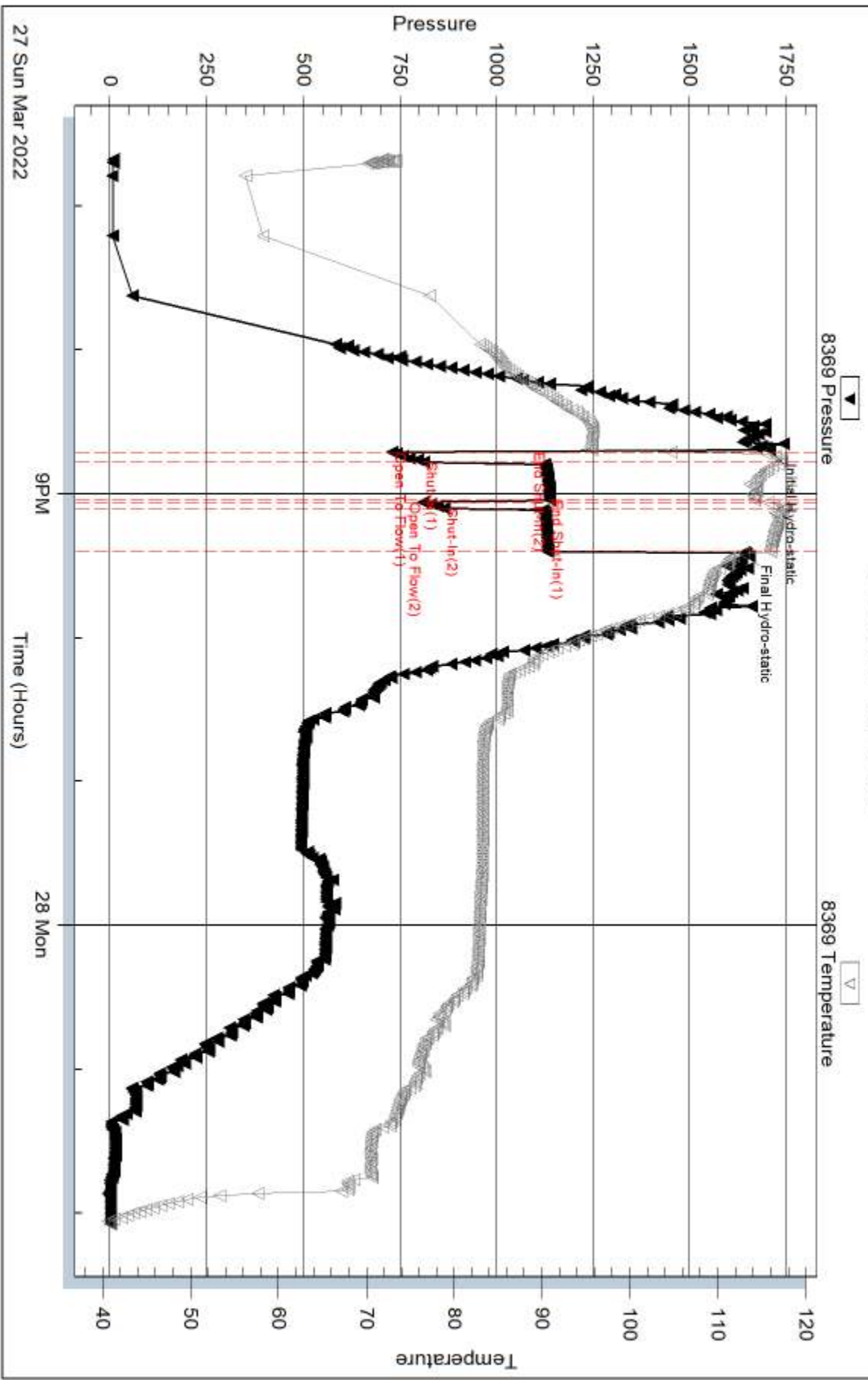
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



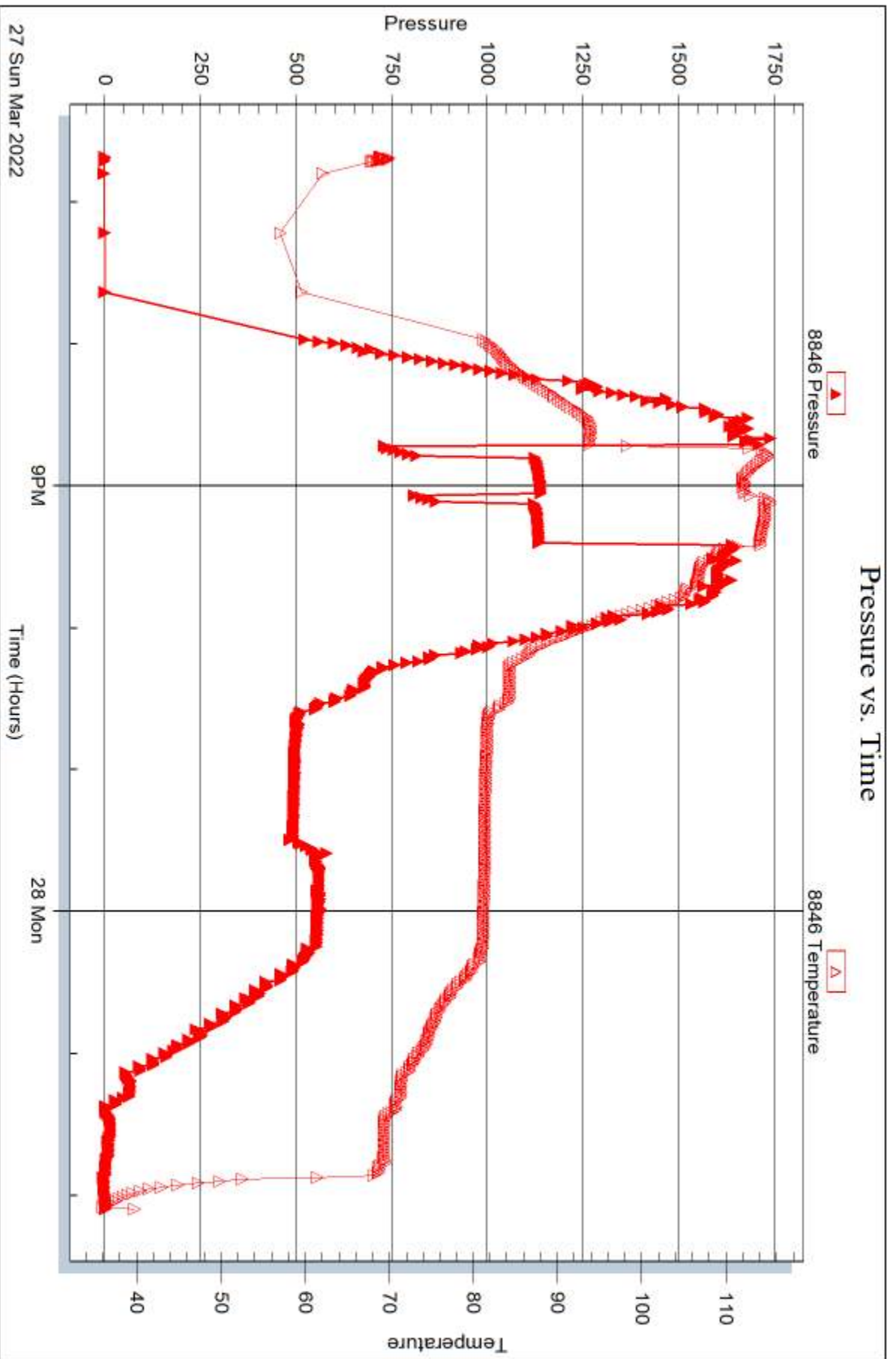
Serial #: 8846

Inside

Palomino Petroleum

Legend #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67623

Printed: 2022.03.31 @ 16:24:30



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **67621**

Well Name & No. Legend #1 Test No. 1 Date 3/26/22  
 Company Palomino Petroleum Elevation 1940 KB 1932 GL  
 Address 4924 SE 89th St Newton, KS 67114  
 Co. Rep / Geo. Chad Counts Rig Duke 2  
 Location: Sec. 25 Twp 16S Rge. 13W Co. Barton State KS

Interval Tested 3132' - 3218' Zone Tested Lansing A-F  
 Anchor Length 86' Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.8  
 Top Packer Depth 3124' Drill Collars Run 60' Vls 58  
 Bottom Packer Depth 3128' Wt. Pipe Run 0 WL 7.2  
 Total Depth 3218 Chlorides 7050 ppm System LCM 1

Blow Description IF: Strong Building Blow built 28.59" (30)  
ISJ: NO Blow Back (30)  
FF: Strong Building Blow Built 35.09" (30)  
FST: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>1688' GIP</u>			<u>100</u>	
Rec <u>32</u>	Feet of <u>OSM</u>				
Rec <u>63</u>	Feet of <u>GOCM</u>	<u>30</u>	<u>15</u>	<u>55</u>	
Rec <u>126</u>	Feet of <u>GUMCO</u>	<u>25</u>	<u>35</u>	<u>5</u>	<u>25</u>
Rec <u>60</u>	Feet of <u>GUMCO</u>	<u>10</u>	<u>45</u>	<u>15</u>	<u>35</u>

Rec Total 281' BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .53 @ 56 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 1558  Test 1300 T-On Location 0205  
 (B) First Initial Flow 41  Jars 250 T-Started 0434  
 (C) First Final Flow 108  Safety Joint 75 T-Open 0752  
 (D) Initial Shut-In 744  Circ Sub \_\_\_\_\_ T-Pulled 0958  
 (E) Second Initial Flow 126  Hourly Standby \_\_\_\_\_ T-Out 1210  
 (F) Second Final Flow 145  Mileage 140 210 Comments \_\_\_\_\_  
 (G) Final Shut-In 710  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1487  Straddle \_\_\_\_\_  EM Tool 350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 350  
 Accessibility \_\_\_\_\_ Total 2185  
 Sub Total 1835 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative 93  
 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. **67622**

Well Name & No. Legend #1 Test No. 2 Date 03/27/02  
 Company Aluminum Petroleum Elevation 1970 KB 1932 GL  
 Address 4524 St. Louis St. Manhattan, KS. 67114  
 Co. Rep / Test Clay Co. Reps Rig Duke 2  
 Location: Sec 25 Twp 16S Rge. 13W Co. Barrow State KS

Interval 8371-3403 Zone Tested Arbuckle  
 Anchor Length 20' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.3  
 Top Packer Depth 3363 Drill Collars Run 60' Vls 53  
 Bottom Packer Depth 3367 Wt. Pipe Run Ø WL 9.2  
 Total Depth 3403 Chlorides 7450 ppm System LCM 1  
 Blow Description IF - Strong Building Blow Built 263.62" (10)  
IST - No Blow Back (15) SURFACE BLOW BACK (15)  
FB - Strong Building Blow Built 196.45" (5)  
IST - No Blow Back (15)

Feet	Feet of	%gas	%oil	%water	%mud
<u>2079</u>	<u>Oil</u>	<u>100</u>			
<u>60</u>	<u>Oil</u>	<u>100</u>			

Sec Total 2339 BHT \_\_\_\_\_ Gravity 36.60 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 1730  Test 1300  
 (B) First Initial Flow 277  Jars 250  
 (C) First Final Flow 771  Safety Joint 75  
 (D) Initial Shut-in 1119  Circ Sub Dropped Bar 34 stands  
 (E) Second Initial Flow 877  Hourly Standby \_\_\_\_\_ 50  
 (F) Second Final Flow 940  Mileage 140 210  
 (G) Final Shut-in 1112  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1660  Straddle \_\_\_\_\_

T-On Location 0143  
 T-Started 0311  
 T-Open 0535  
 T-Pulled 0623  
 T-Out \_\_\_\_\_  
 Comments \_\_\_\_\_  
 EM Tool 350  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 350  
 Total 2235  
 MP/DST Disc't \_\_\_\_\_

Initial Open 10  
 Initial Shut-in 15  
 Final Flow 5  
 Final Shut-in 10:15

Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1885

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67623

Well Name & No. Legend #1 Test No. 3 Date 3/27/20  
 Company Palomino Petroleum Elevation 1940 KB 1932 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Chad Counts Rig Duke 2  
 Location: Sec. 2S Twp 16S Rge. 13W Co. Barber State KS

Interval Tested 3403-3415 Zone Tested ARTUCKLE  
 Anchor Length 12' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.45  
 Top Packer Depth 3395 Drill Collars Run 0 Vis 56  
 Bottom Packer Depth 3399 Wt. Pipe Run 0 WL 8.4  
 Total Depth 3415 Chlorides 9100 ppm System LCM 1

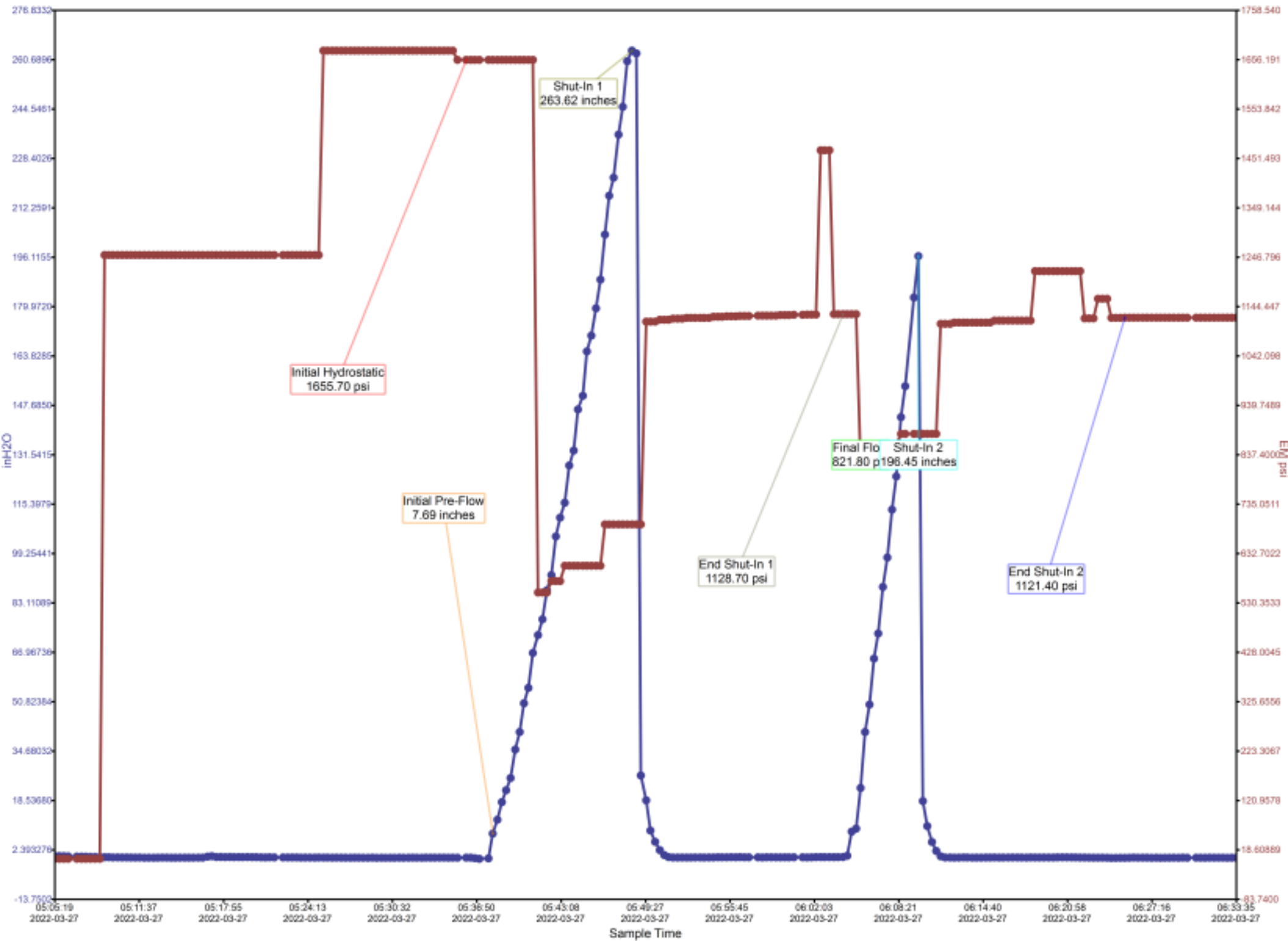
Blow Description IF: Strong Building Blow built 139.80" (5)  
DSI: no Blow Back (15)  
FF: Strong Building Blow built 94.59" (5)  
FSI: no Blow Back (15)

Rec	Feet of	%gas	%oil	%water	%mud
126	WMCO	45	30	25	
126	WMCO	65	30	5	
126	WCO	60	40		
RIT	20 min OCW approx 700'	30	70		
RIT	10 min OCW approx 300'	10	90		

Rec Total 1386 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW .15 @ 32 °F Chlorides 14000 ppm  
 (A) Initial Hydrostatic 1708  Test 1300 T-On Location 1736  
 (B) First Initial Flow 729  Jars 250 T-Started 1840  
 (C) First Final Flow 811  Safety Joint 75 T-Open 2047  
 (D) Initial Shut-In 1139  Circ Sub Drafted Bar 50 T-Pulled 2125  
 (E) Second Initial Flow 809  Hourly Standby \_\_\_\_\_ T-Out 0204  
 (F) Second Final Flow 865  Mileage 140 210 Comments \_\_\_\_\_  
 (G) Final Shut-In 1133  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1643  Straddle \_\_\_\_\_  EM Tool 350  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 350  
 Accessibility \_\_\_\_\_ Total 2235  
 Sub Total 1885 MP/DST Disc't \_\_\_\_\_

Initial Open 5  
 Initial Shut-In 15  
 Final Flow 5  
 Final Shut-In 15  
 Approved By \_\_\_\_\_ Our Representative [Signature]  
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# Palomino Petroleum - Legend 1 - Dst #2







**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton, KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67622

**DST#: 2**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 03:11:43

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:32:53

Time Test Ended: 12:37:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3371.00 ft (KB) To 3403.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3403.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369 Outside**

Press@RunDepth: 939.61 psig @ 3372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.27 End Date: 2022.03.27

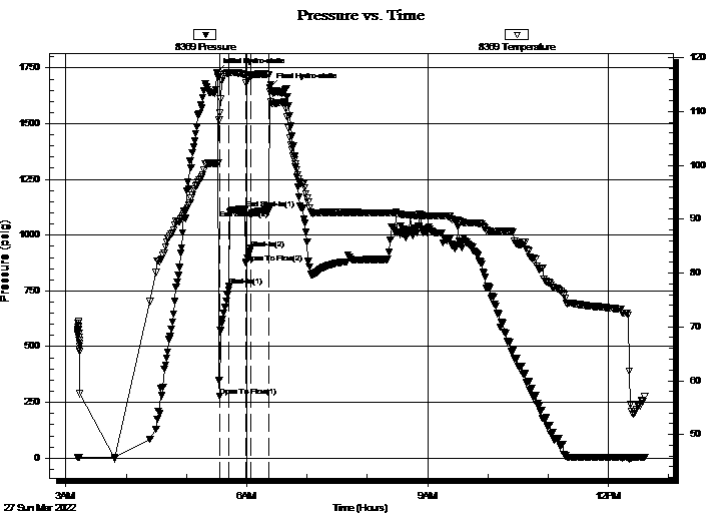
Last Calib.: 2022.03.27

Start Time: 03:11:44 End Time: 12:37:13

Time On Btm: 2022.03.27 @ 05:30:23

Time Off Btm: 2022.03.27 @ 06:22:53

**TEST COMMENT:** IF: Strong Building Blow built 263.62" (10)  
IS: Surface Blow Back (15)  
FF: Strong Building Blow built 196.45" (5)  
FS: No Blow Back (15)



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.85	100.41	Initial Hydro-static
3	276.99	109.74	Open To Flow (1)
13	771.41	117.18	Shut-In(1)
29	1118.53	116.88	End Shut-In(1)
29	876.64	116.75	Open To Flow (2)
34	939.61	116.71	Shut-In(2)
52	1112.07	116.79	End Shut-In(2)
53	1660.46	113.65	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil 100%O	0.30
2079.00	Oil 100%O	30.40

\* 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 84th ST  
 Newton, KS. 67114  
 ATTN: Chad Counts

**25-16S-13W Barton, KS**

**Legend #1**

Job Ticket: 67622      **DST#: 2**  
 Test Start: 2022.03.27 @ 03:11:43

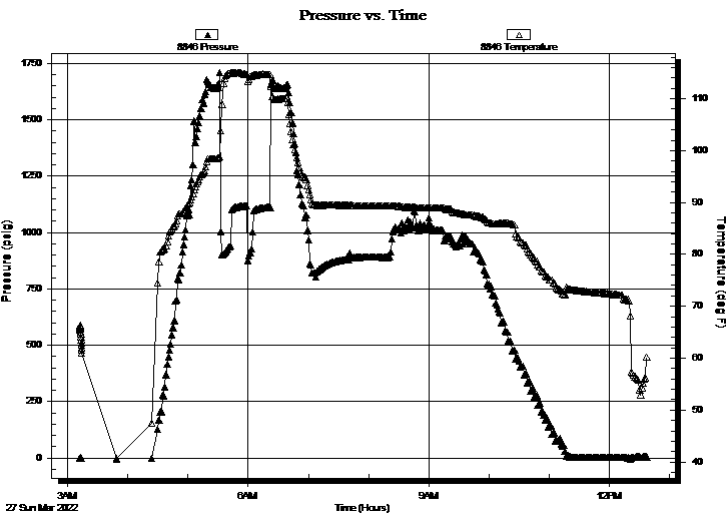
**GENERAL INFORMATION:**

Formation: <b>Arbuckle</b>		
Deviated:      No      Whipstock:      ft (KB)		Test Type:      Conventional Bottom Hole (Reset)
Time Tool Opened: 05:32:53		Tester:      Eric Burgess
Time Test Ended: 12:37:13		Unit No:      80
<b>Interval:      3371.00 ft (KB) To      3403.00 ft (KB) (TVD)</b>		Reference Elevations:      1940.00 ft (KB)
Total Depth:      3403.00 ft (KB) (TVD)		1932.00 ft (CF)
Hole Diameter:      7.88 inches	Hole Condition:      Fair	KB to GR/CF:      8.00 ft

**Serial #: 8846      Inside**

Press@RunDepth:      psig @      3372.00 ft (KB)	Capacity:      8000.00 psig
Start Date:      2022.03.27      End Date:      2022.03.27	Last Calib.:      1899.12.30
Start Time:      03:11:50      End Time:      12:37:29	Time On Btm:
	Time Off Btm:

**TEST COMMENT:** IF:Strong Building Blow built 263.62" (10)  
 IS:Surface Blow Back (15)  
 FF:Strong Building Blow built 196.45" (5)  
 FS:No Blow Back (15)



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
60.00	Oil 100%O	0.30
2079.00	Oil 100%O	30.40

\* 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

**25-16S-13W Barton,KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67622

**DST#: 2**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 03:11:43

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7450.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Oil 100%O	0.295
2079.00	Oil 100%O	30.404

Total Length: 2139.00 ft      Total Volume: 30.699 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

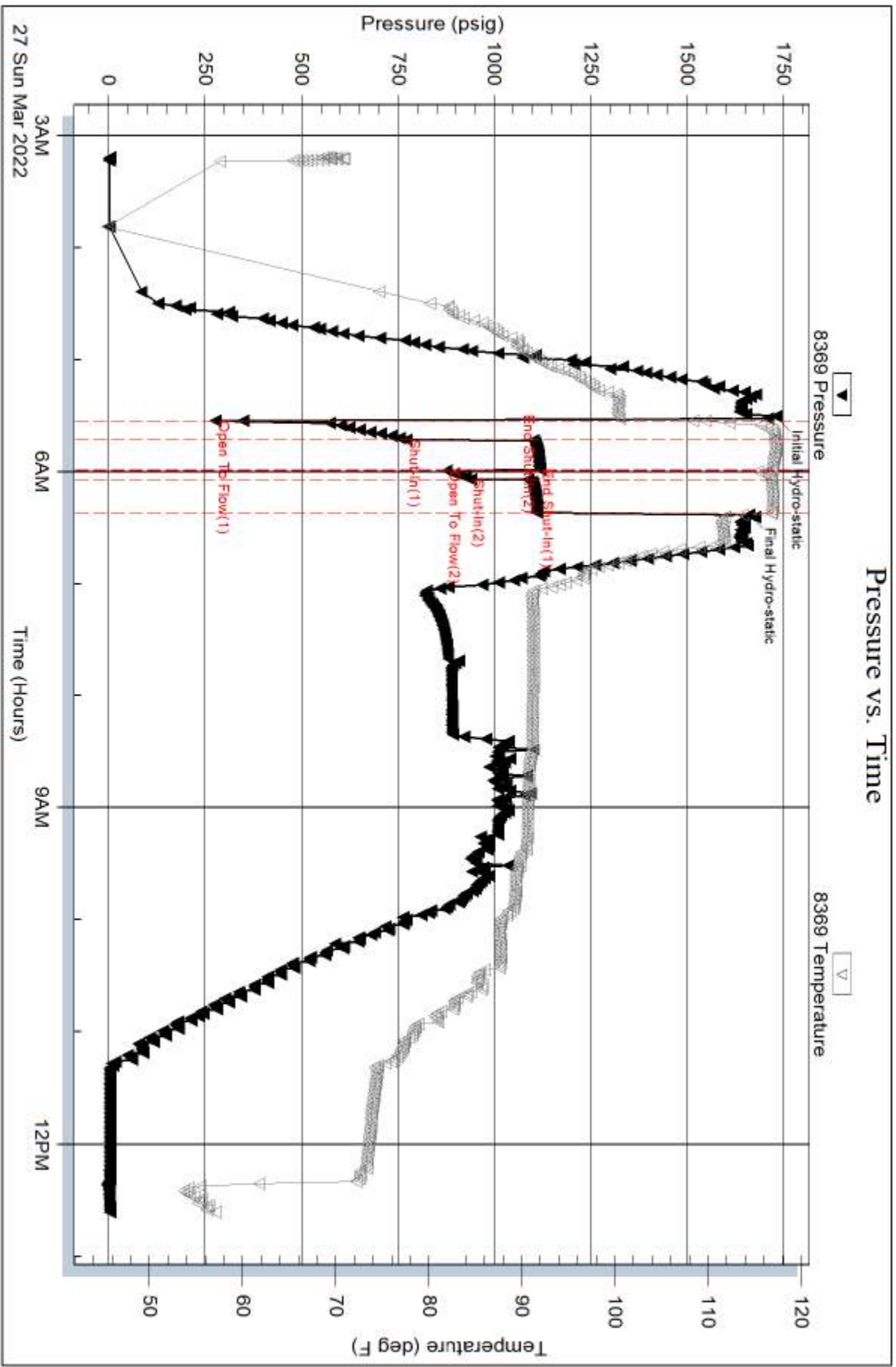
Recovery Comments: reversed into truck  
36 @ 60

Serial #: 8369

Outside Palomino Petroleum

Legend #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 67622

Printed: 2022.03.27 @ 14:50:38

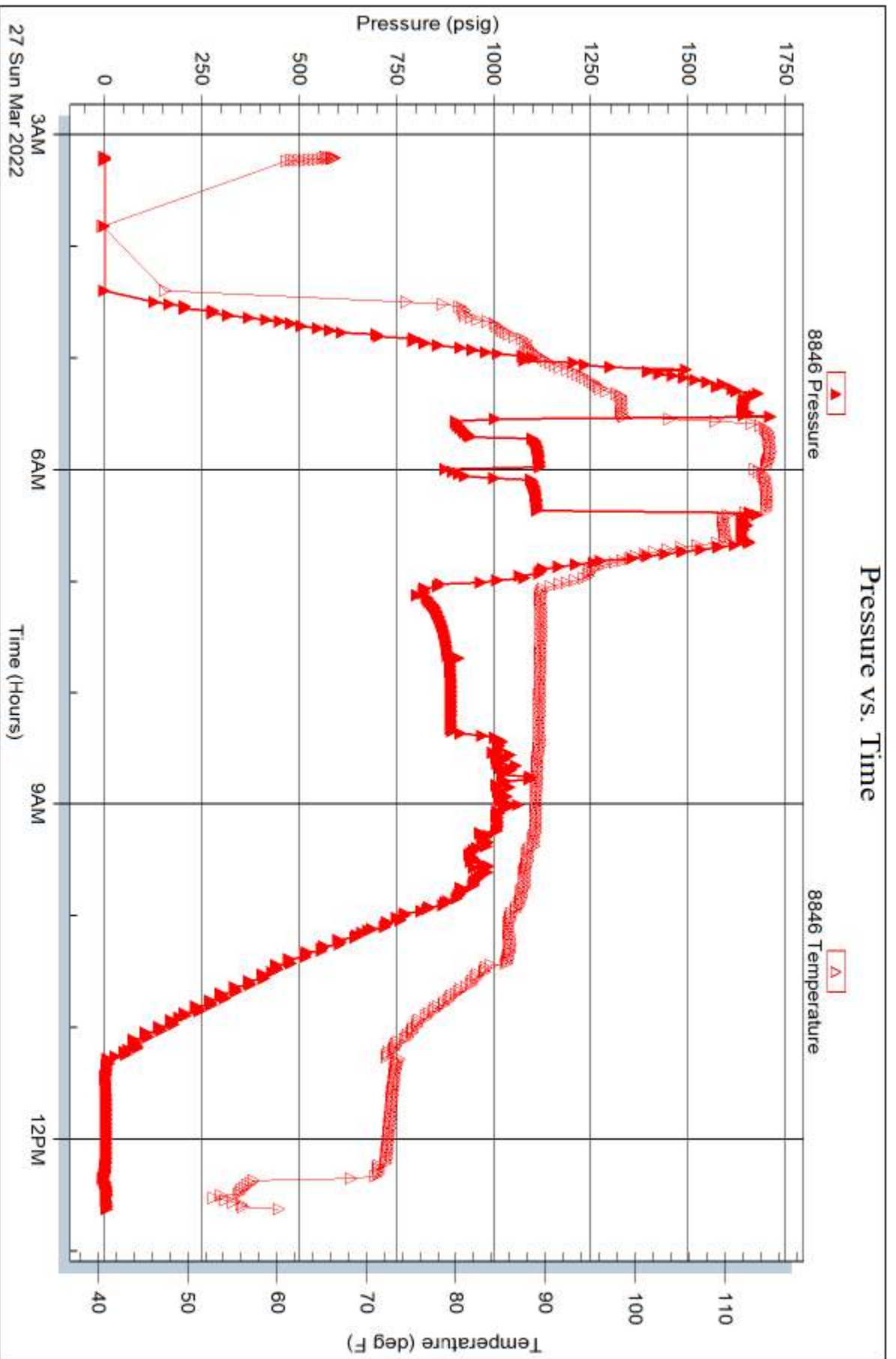
Serial #: 8846

Inside

Palomino Petroleum

Legend #1

DST Test Number: 2

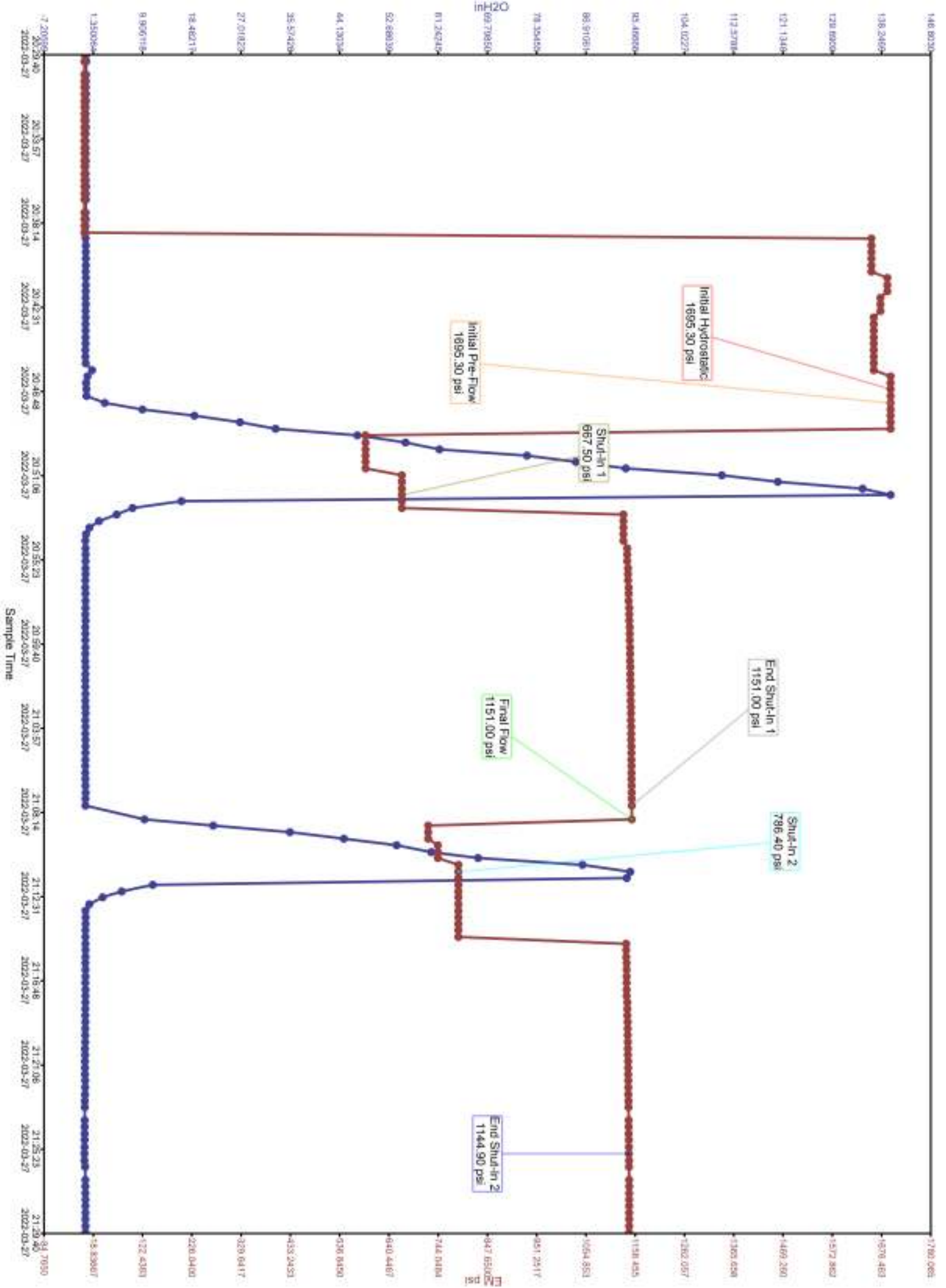


Trilobite Testing, Inc

Ref. No: 67622

Printed: 2022.03.27 @ 14:50:38

# Palomino Petroleum - Legend 1 - Dst #3



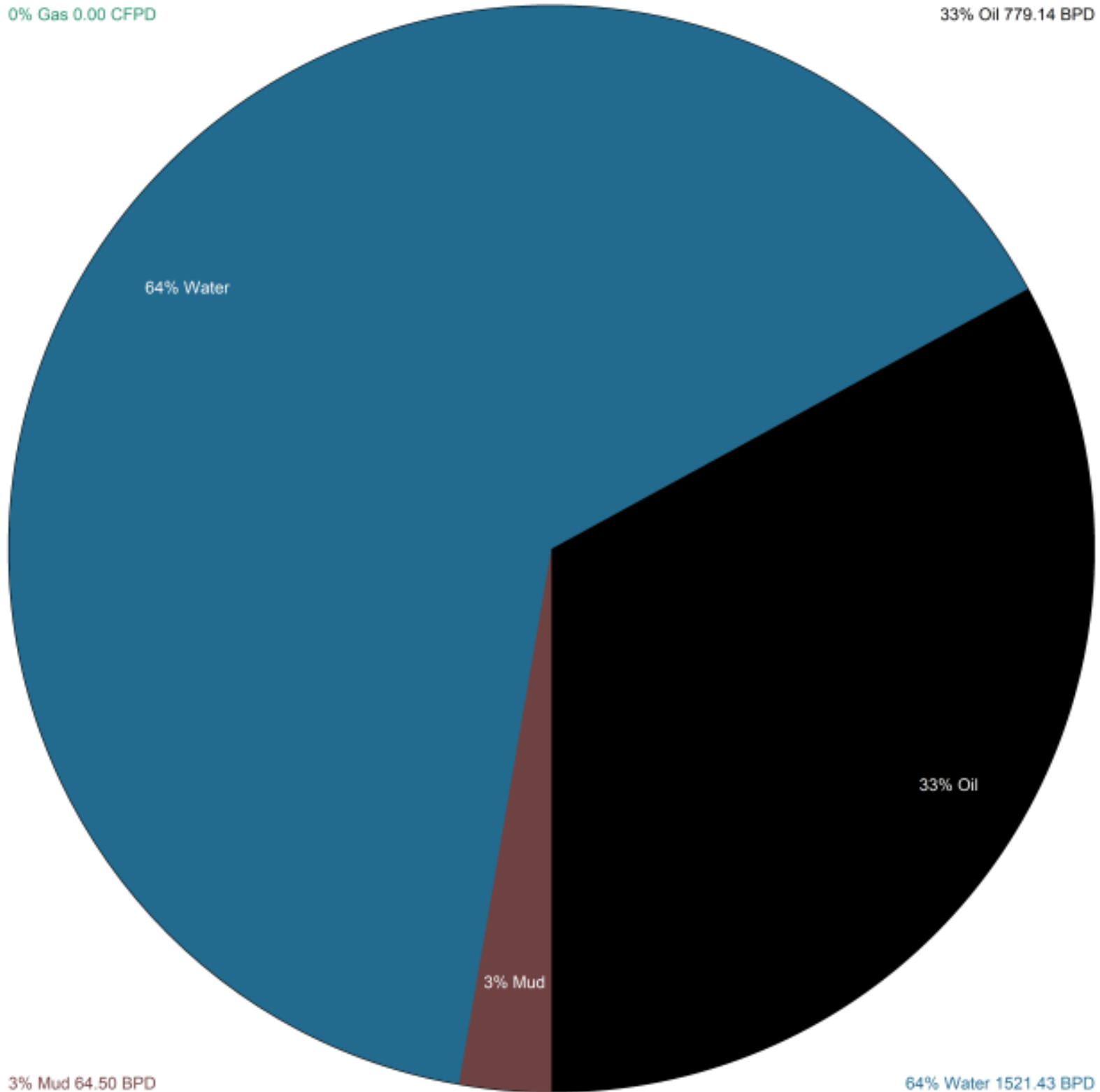
Calculated Recovery Analysis - Palomino Petroleum - Legend 1 - Dst #3

0% Gas 0.00 CFPD

33% Oil 779.14 BPD

3% Mud 64.50 BPD

64% Water 1521.43 BPD





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th ST  
 Newton, KS. 67114  
 ATTN: Chad Counts

**25-16S-13W Barton, KS**

**Legend #1**

Job Ticket: 67623      **DST#: 3**  
 Test Start: 2022.03.27 @ 18:40:26

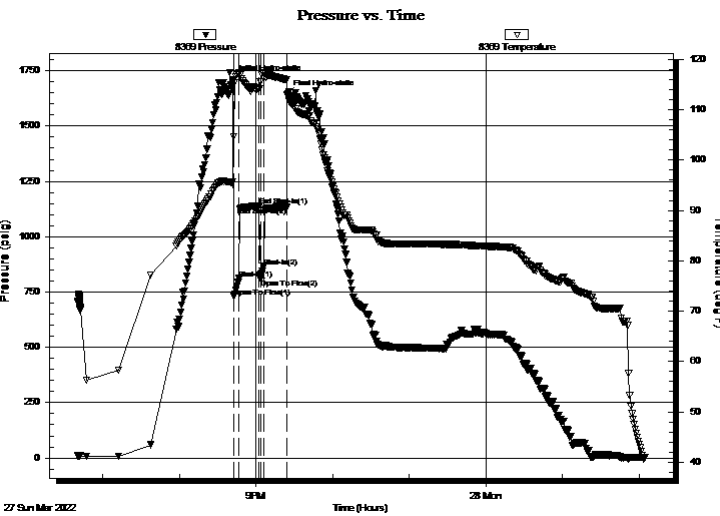
**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 20:42:36  
 Time Test Ended: 02:04:56  
 Interval: **3403.00 ft (KB) To 3415.00 ft (KB) (TVD)**  
 Total Depth: 3415.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Eric Burgess  
 Unit No: 80  
 Reference Elevations: 1940.00 ft (KB)  
 1932.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8369**

Press@RunDepth: 864.77 psig @                      ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2022.03.27      End Date: 2022.03.28      Last Calib.: 1899.12.30  
 Start Time: 18:40:27      End Time: 02:04:56      Time On Btm: 2022.03.27 @ 20:41:46  
 Time Off Btm: 2022.03.27 @ 21:24:16

**TEST COMMENT:** IF:Strong Building Blow built to 139.80" (5)  
 IS:No Blow Back (15)  
 FF:Strong Building Blow built to 94.59" (5)  
 FS:No Blow Back (15)



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1707.83	95.67	Initial Hydro-static
1	729.14	104.70	Open To Flow (1)
5	811.06	117.26	Shut-In(1)
21	1138.73	114.20	End Shut-In(1)
22	809.44	115.63	Open To Flow (2)
25	864.77	117.41	Shut-In(2)
43	1132.81	115.96	End Shut-In(2)
43	1642.74	115.91	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
300.00	OCW 10%O 90%W RIT aprox 300'	4.39
708.00	OCW 30%O 70%W RIT aprox 708'	10.35
126.00	WCO 60%O 40%W	1.84
126.00	WMCO 65%O 30%W 5%M	1.84
126.00	WMCO 45%O 30%W 25%M	1.84

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**25-16S-13W Barton, KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67623

**DST#: 3**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 18:40:26

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:36

Time Test Ended: 02:04:56

Test Type: Conventional Bottom Hole (Reset)

Tester: Eric Burgess

Unit No: 80

**Interval: 3403.00 ft (KB) To 3415.00 ft (KB) (TVD)**

Reference Elevations: 1940.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1932.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8846

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.03.27

End Date:

2022.03.28

Last Calib.:

1899.12.30

Start Time: 18:40:59

End Time:

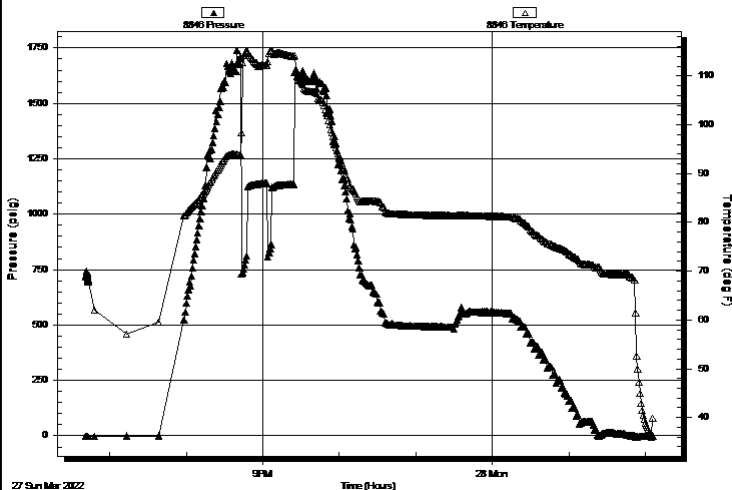
02:05:38

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Strong Building Blow built to 139.80" (5)  
IS: No Blow Back (15)  
FF: Strong Building Blow built to 94.59" (5)  
FS: No Blow Back (15)

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	OCW 10%O 90%W RIT aprox 300'	4.39
708.00	OCW 30%O 70%W RIT aprox 708'	10.35
126.00	WCO 60%O 40%W	1.84
126.00	WMCO 65%O 30%W 5%M	1.84
126.00	WMCO 45%O 30%W 25%M	1.84

## 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

**25-16S-13W Barton,KS**

4924 SE 84th ST  
New ton, KS. 67114

**Legend #1**

Job Ticket: 67623

**DST#: 3**

ATTN: Chad Counts

Test Start: 2022.03.27 @ 18:40:26

### 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:

14000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9100.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	OCW 10%O 90%W RIT aprox 300'	4.387
708.00	OCW 30%O 70%W RIT aprox 708'	10.354
126.00	WCO 60%O 40%W	1.843
126.00	WMCO 65%O 30%W 5%M	1.843
126.00	WMCO 45%O 30%W 25%M	1.843

Total Length: 1386.00 ft

Total Volume: 20.270 bbl

Num Fluid Samples: 0

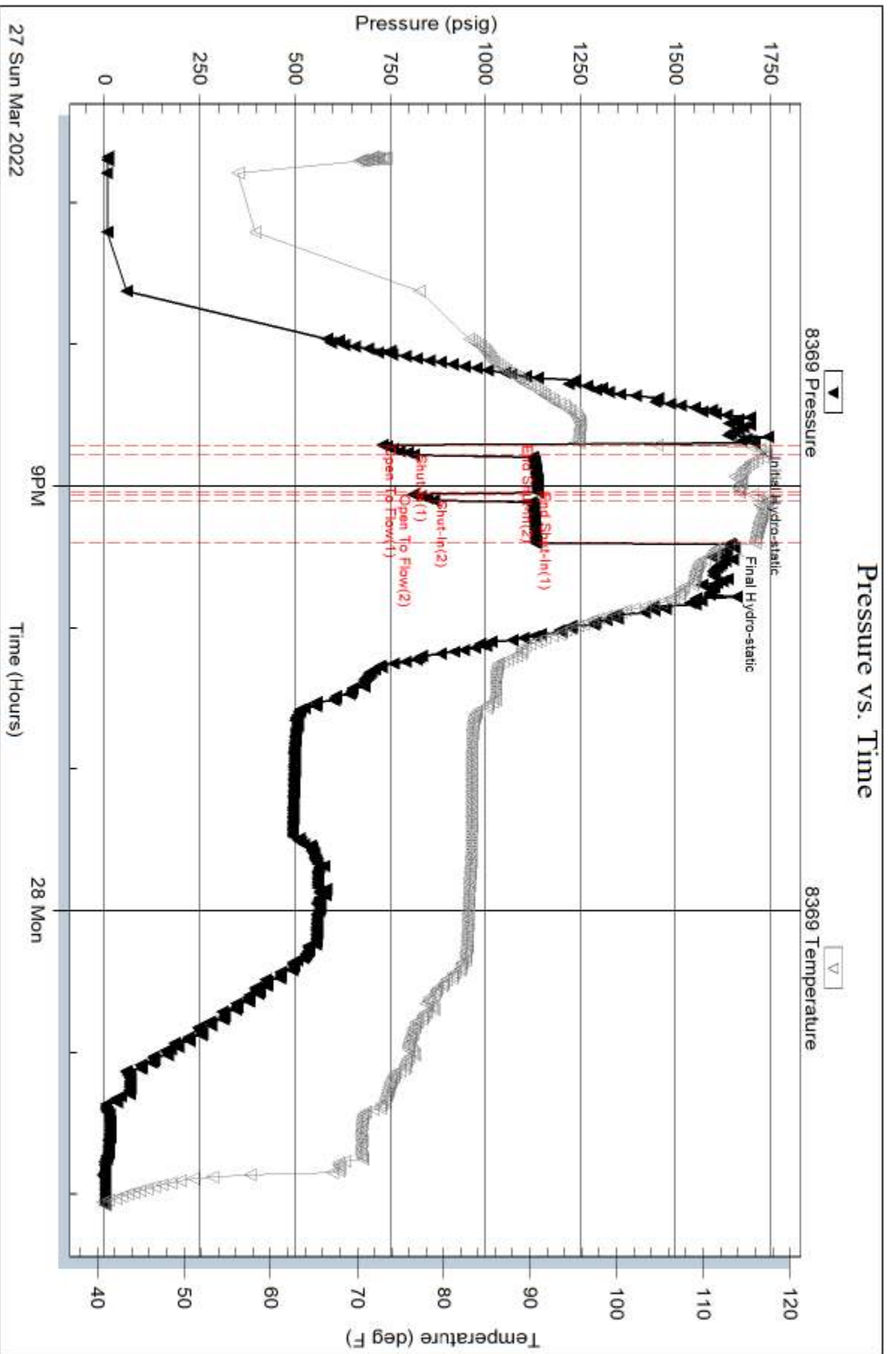
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

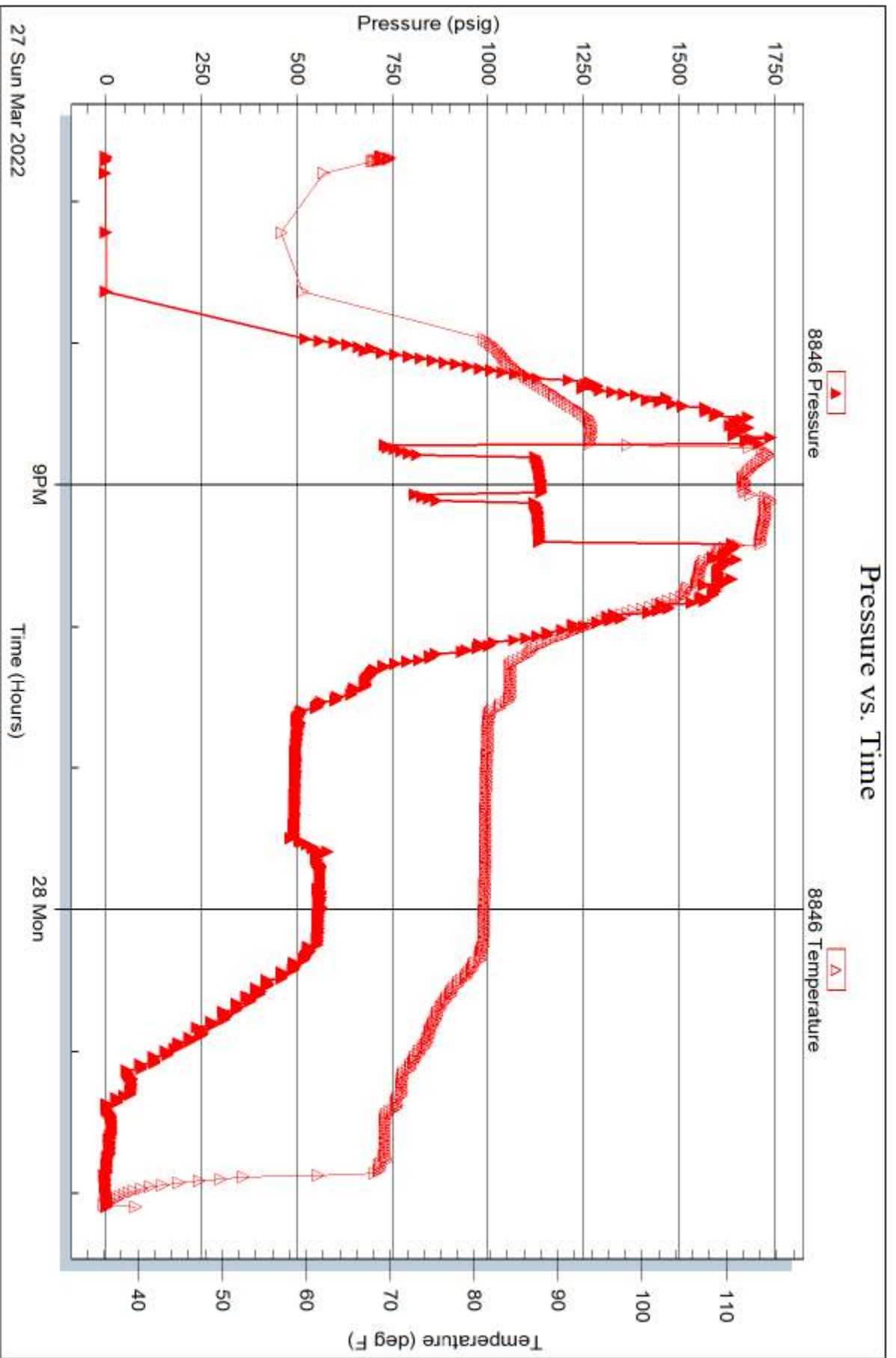


Serial #: 8846

Palomino Petroleum

Legend #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 67623

Printed: 2022.03.28 @ 05:29:13