

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**Pyren Seib**  
Petroleum Geologicist

815 S. Florida  
Nash City, MS 37660  
(769) 788-6388

**Geological Report**  
INCLUDING TITLE AND SUMMARY SHEETS

**Location** 300' E 1/4 & 1416' E 1/4  
**SEC.** 14 **TWP.** 80 S **RGE.** 34 W  
**QUANT.** 5.0 A **STATE.** MS

**Well No.** 4920  
**Operator.** ATD  
**Completion Date.** 11/15/72  
**Well Depth.** 4915'  
**Well Type.** ATO  
**Well Status.** ATO  
**Well Completion Date.** 11/15/72  
**Well Completion Status.** ATO  
**Well Completion Remarks.** 300' to 4915'  
**Well Completion Date.** 11/15/72  
**Well Completion Status.** ATO  
**Well Completion Remarks.** 300' to 4915'

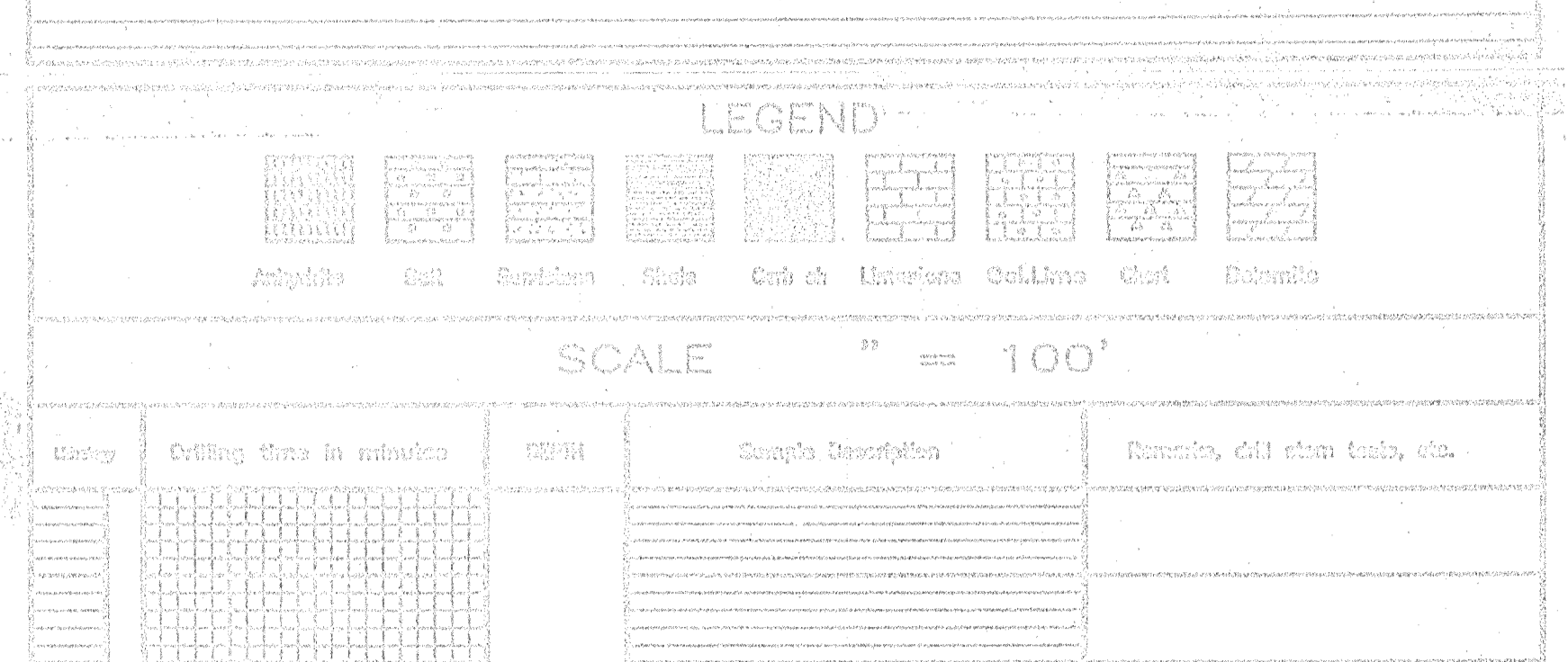
**Field No.** 3002  
**Map Sheet No.** 815  
**Section No.** 227  
**Well No.** 4920  
**Operator.** ATD  
**Completion Date.** 11/15/72  
**Well Depth.** 4915'  
**Well Type.** ATO  
**Well Status.** ATO  
**Well Completion Date.** 11/15/72  
**Well Completion Status.** ATO  
**Well Completion Remarks.** 300' to 4915'

**Geological Information**  

Altitude	3171 (883)	8155 (882)
Area	3866 (882)	3872 (883)
Area	4192 (1257)	4197 (1258)
Area	4321 (1257)	4327 (1258)
Area	4400 (1257)	4407 (1258)
Area	4478 (1257)	4483 (1258)
Area	4525 (1257)	4530 (1258)
Area	4544 (1257)	4549 (1258)
Area	4555 (1257)	4560 (1258)
Area	4555 (1257)	4560 (1258)

**Geological Information**  

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Area	4555 (1257)	4560 (1258)



**LEGEND**

**SCALE** 1" = 100'

Depth	Sample Description	Remarks, Oil stem tests, etc.
3700	ls. congl. sh. f. x sh. x h. p. dense thick. p. vis. sh. n/s	
10		
20		
30		
40		
50		
60		
70		
80		
90		
3800		
10		
20		
30		
40		
50		
60		
70	Heeber 3872 (-959)	Sh. DK Carb
80		Sh. grayed
90		
3900		
10		
20		
30		
40		
50		
60		
70		
80		
90		
4000		
10		
20		
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50		
60		
70		
80		
90		
4100		
10		
20		
30		
40		
50		
60		
70		
80		
90		
4200		
10		
20		
30		
40		
50		
60		
70		
80		
90		
4300		
10		
20		
30		
40		
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4400		
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4400		
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4500		
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90		
4600		
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90		
4700		
10		
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4800		
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70		
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90		
4900		
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60		
70		
80		
90		
4920		

**DST # 2 4765'-4775'**  
 Acc. - 70-30-30-20  
 FF - 80.0-315" FSI - 6"  
 FF - 80.0-6" FSI - 80.0-14"  
 220' oil m (10700, 10700-)  
 370' m/s (4011, 5090, 10700)  
 252' m/s (2000, 5070, 10700, 50)  
 63' m/s (5070, 5070m)  
 HP - 221# - 2187#  
 IFP - 87# - 2187# FFP - 270# 272#  
 FSI P - 1096# FSI P - 1085#

**DST # 2 4777'-4780'**  
 Acc. - 30-30-30-20  
 FF - 80.0-5" FSI - 6 1/2"  
 FF - 80.0-5" FSI - 80.0-12"  
 83' m/s (2070, 4070, 2070m)  
 240' m/s (1070, 7070, 2070m)  
 HP - 223# - 2180#  
 IFP - 41# 99# FFP - 112# 137#  
 FSI P - 634# FSI P - 624#

**mud @ 4750'**  
 wt. - 9.3  
 vis. - 6.3  
 chl. - 8.8  
 chl. - 2,150  
 lcm. - 8"

**mud @ 4550'**  
 wt. - 9.4  
 vis. - 6.2  
 chl. - 9.2  
 chl. - 3,100  
 lcm. - 9"





**HP Oilfield Services, LLC**  
 383 Inverness Parkway, Suite 330  
 Englewood, CO 80112

# Invoice

Date	Invoice #
8/15/2022	27844

Bill To
Palomino Petroleum 4924 SE 84th Street Newton, KS 67114

Lease
Casablanca #4

Order by / P.O. No.	Terms
	Net 30

Description	Unit	Hrs / Qty	U/M	Rate	Amount
Casablanca #4 Field Ticket #: 2548K-C Description: Please see Attached Field Ticket					
Pump Charge for Cement	CMT-103	1	ea	1,150.00	1,150.00
Pumptruck Mileage	CMT-103	50	ea	7.15	357.50
Mileage Delivery of Bulk Material - 50 x 9.4 = 470.00 x 1.75 = 822.50	CMT-103	470	ea	1.75	822.50
Surface Blend II, 2% Gel/3% CaCl	CMT	200	SKS	24.00	4,800.00T
Discount - Non-Taxable Items	CMT	1	ea	-466.00	-466.00
Discount - Taxable Items	CMT	1	ea	-960.00	-960.00T
Subtotal prior to Sales Taxes					5,704.00
KS & Scott County Sales Tax				8.50%	326.40

Thank you for your business.	<b>Total</b>	\$6,030.40
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785-953-0222

TICKET NUMBER **2548 K-C**

LOCATION Hugotay Ks

FOREMAN Walt Dunkel

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-15-22		Caseablanca #4	14	20 <sup>s</sup>	34 <sup>W</sup>	Scott
CUSTOMER <u>Palomino Petroleum</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			<u>103</u>	<u>Cory D</u>		
CITY				<u>Jon Ewert</u>		
STATE						
ZIP CODE						

*Handwritten notes: Scott City, south to Rd 40, 7-West, 345.*

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 226' CASING SIZE & WEIGHT 8 5/8-23#  
 CASING DEPTH 226' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15-20'  
 DISPLACEMENT 13.0 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 BPM

REMARKS: Safety Meeting, Rig up on Mur Fin #21, Circ casing on bottom  
mix 200 sks class A, 30 bbl - 2% Gel, Displace 13, BBL H<sub>2</sub>O, Shut in

Cement Did Circ  
Approx 5 BBL to Rt

Thank You  
Walt Dunkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	<u>1</u>	PUMP CHARGE	<u>1,150.00</u>	<u>1,150.00</u>
	<u>50</u>	MILEAGE <u>7.15</u>		<u>357.50</u>
	<u>9.4</u>	<u>Ton Mileage Delivery</u>	<u>7.75</u>	<u>822.50</u>
	<u>200 sks</u>	<u>Surface Blend II</u>	<u>24.00</u>	<u>4800.00</u>
				<u>7,130.00</u>
		<u>Less 20% Disc -</u>		<u>1,426.00</u>
				<u>5,704.00</u>
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION Juan Pizarro

TITLE Toolpusher

DATE 8-15-22

I acknowledge that the payments terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.





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

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

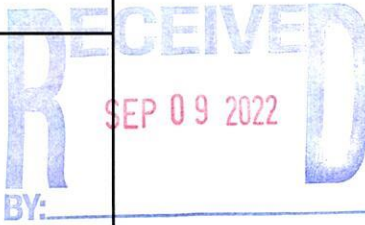
# Invoice

Date	Invoice #
8/25/2022	0694

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
Scott County, KS	Casablanca #4	Net 30	DV Tool

Description	Quantity	Rate	Amount
Pump Charge	1	2,500.00	2,500.00
Mileage	65	6.50	422.50
34.48 tons at 65 miles	2,241.2	1.50	3,361.80
Thixo blend OWC	175	28.55	4,996.25T
60/40 88 gel 1/6 # flo	525	17.35	9,108.75T
5-1/2" Guide Shoe AFU	1	600.00	600.00T
5-1/2" Flex Latchdown Plug & Assembly	1	695.00	695.00T
5-1/2" Basket	1	385.00	385.00T
5-1/2" Turbalizer Centralizers	9	108.00	972.00T
5-1/2" DV Stage Tool	1	4,200.00	4,200.00T
Mud Flush	500	1.00	500.00T
KCL	3	30.00	90.00T
51/2 Stop Ring	1	35.00	35.00T
Head & Manifold Charge	1	200.00	200.00T
Discount		-2,806.63	-2,806.63

Cement for long string for #4

Thank you!

8/25

Accounts Due Net 10th. 1-1/2% Per Month on all Past Due Accounts. 18% Annual Rate.	<b>Subtotal</b>	\$25,259.67
<i>We appreciate your business and look forward to serving you again!</i>	<b>Sales Tax (8.5%)</b>	\$1,666.32
	<b>Balance Due</b>	\$26,925.99



# FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269  
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0694  
 LOCATION Hoyte  
 FOREMAN Tom Williams

## FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-25-22		Casa Blanca #4	14	20	34W	Scott
CUSTOMER Palomina Petroleum Inc			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

JOB TYPE 2 DV Tool HOLE SIZE \_\_\_\_\_ HOLE DEPTH 4920' CASING SIZE & WEIGHT 5 1/2"  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8/14.8 SLURRY VOL 1.4/2.34 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 119/69 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: 500 gal mud slush followed by 2 gal KLL. Mix 175 5# over & displace  
latch down plug 1500psi. Release pressure Drop dart. & load plug 20min  
pump duff - apr DV tool. Pump 1 gal KLL followed by 525 5# 60/40. RT 30 min  
450 down hole. Wash up. Displace plug with G9 Bbl - Plug down 4:30am  
Wash clean. Rack up more aff

Leman & did circulate 305x

Thanks Tom + LCNW

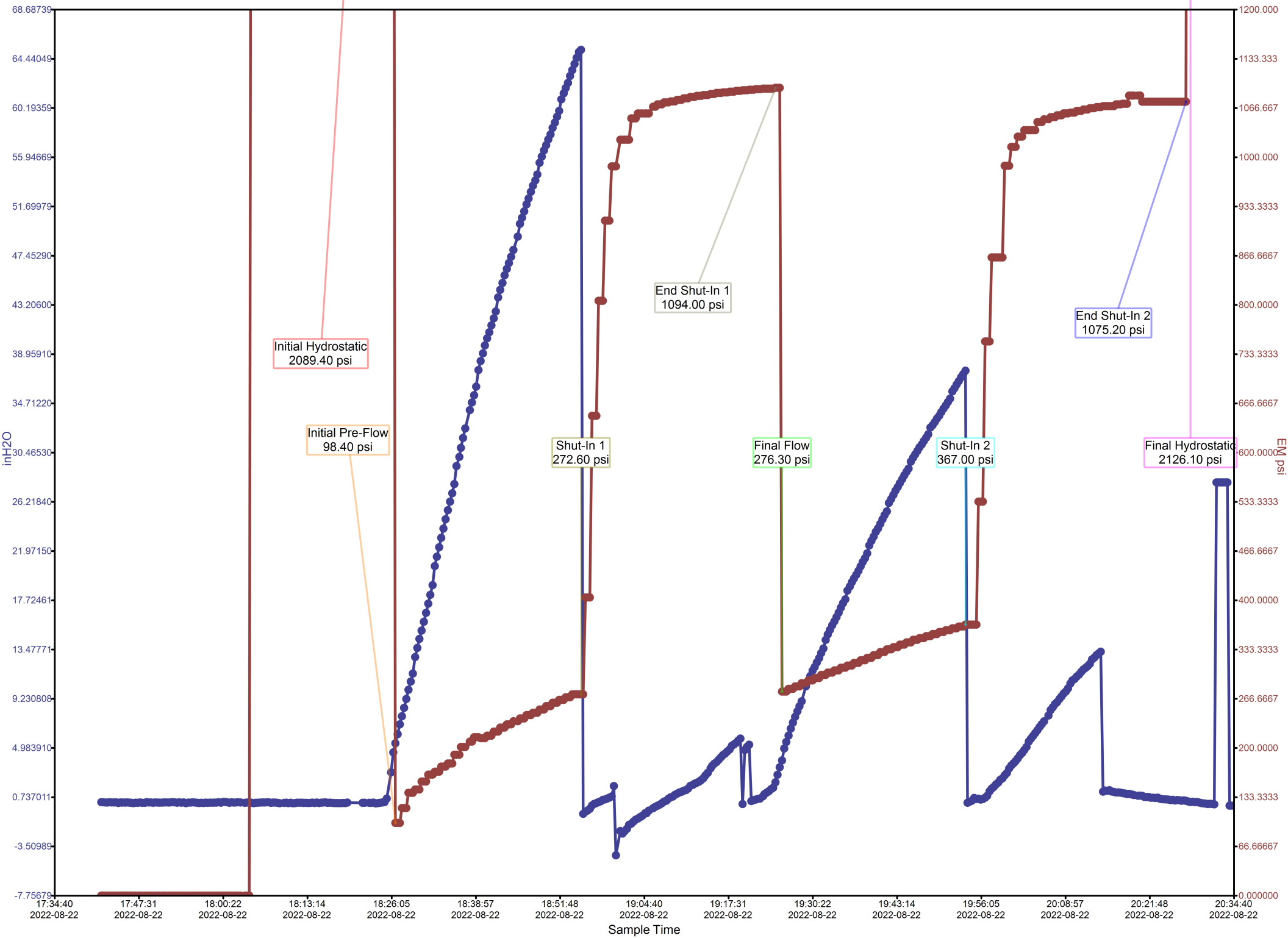
ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
PC004	1	PUMP CHARGE DV Tool	\$7500.00	\$7500.00
MO01	65	MILEAGE	\$6.50	\$422.50
MO02	34.45 tons	Ton Mileage Delivery	\$3361.80	\$3361.80
CB030	175 5#	Class A G9 powder 10% solid 2 1/2 gal 5# / gal	\$28.55	\$4996.25
CB031	525 5#	60/40 G9 powder 1/4 # 5 1/2" seal	\$17.25	\$9108.75
FE0033	1	5 1/2" AFU guide shot	\$600.00	\$600.00
FE052	1	5 1/2" latch down plug essy	\$695.00	\$695.00
FE022	1	5 1/2" basket	\$385.00	\$385.00
FE014	9	5 1/2" fur collar	\$108.00	\$972.00
FE090	1	5 1/2" DV Tool	\$4200.00	\$4200.00
CP013	500 gal	Mud Slush	\$1.00	\$500.00
CP014	3 gal	KLL	\$30.00	\$90.00
FE102	1	5 1/2" stop ring	\$35.00	\$35.00
CE003	1	5 1/2" head & manifold	\$200.00	\$200.00
			sub total	\$28,004.30
			less 10% disc.	\$25,203.87
			sub total	\$25,259.47
			SALES TAX	1666.32
			ESTIMATED TOTAL	26925.99

AUTHORIZATION Ruby Papp TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



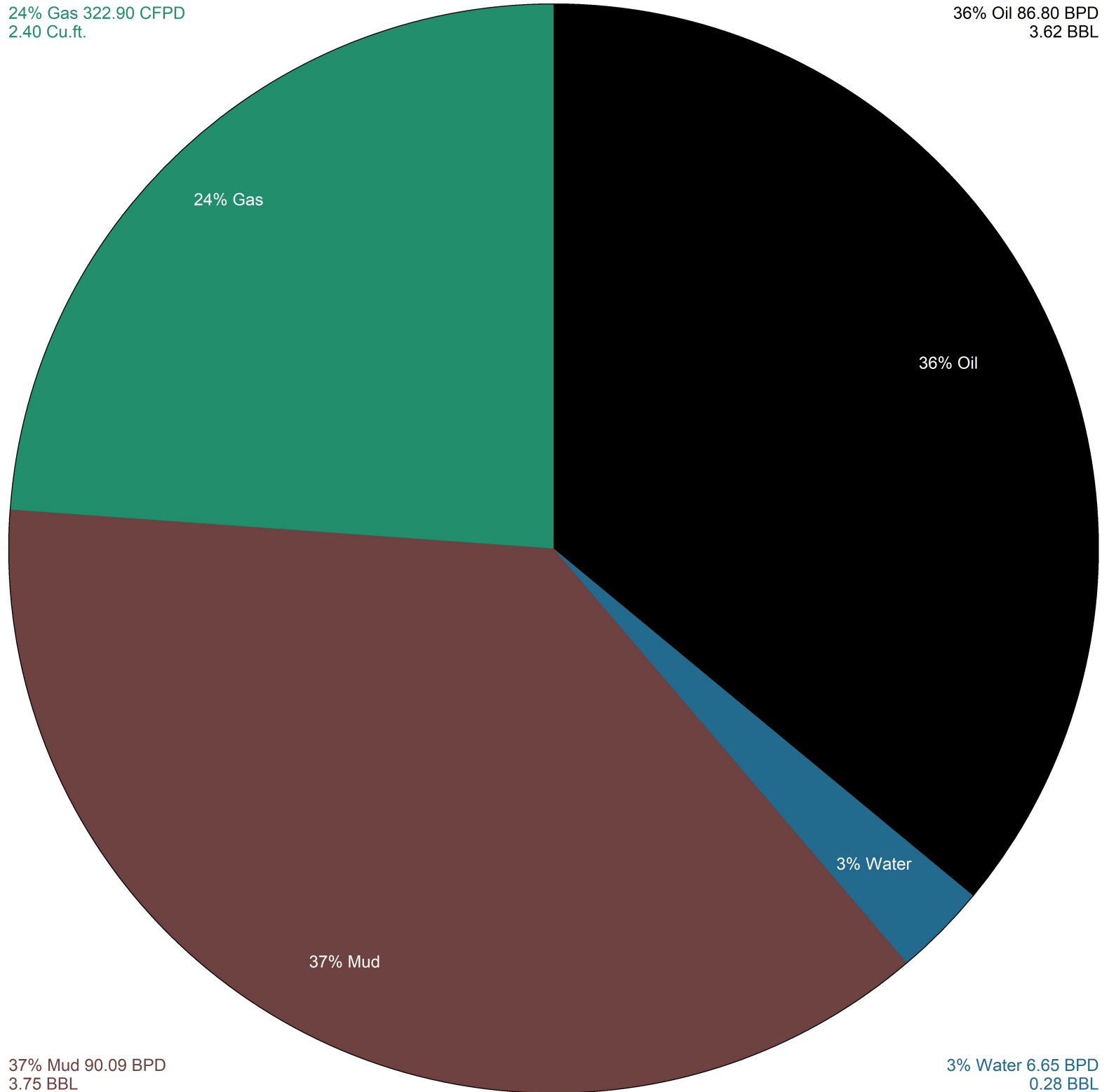
# Palomino Petroleum - Casablanca 4 - DST #1



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

24% Gas 322.90 CFPD  
2.40 Cu.ft.

36% Oil 86.80 BPD  
3.62 BBL



24% Gas

36% Oil

3% Water

37% Mud

37% Mud 90.09 BPD  
3.75 BBL

3% Water 6.65 BPD  
0.28 BBL





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

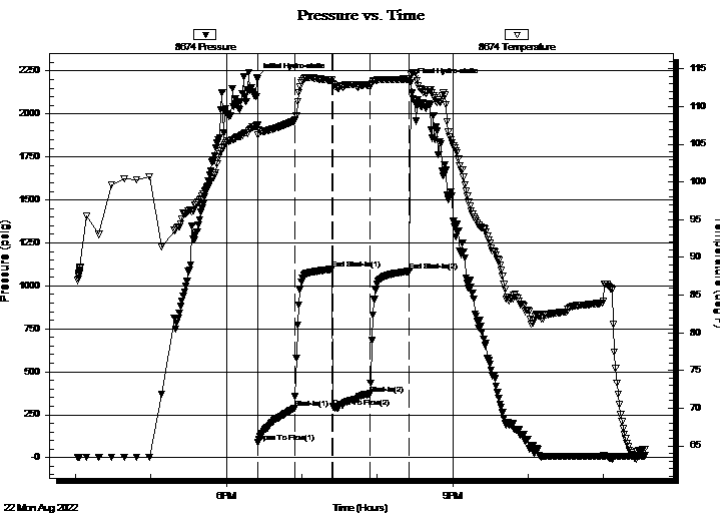
**14-20s-34w Scott Ks**  
**Casablanca #4**  
Job Ticket: 69128 **DST#: 1**  
Test Start: 2022.08.22 @ 16:01:42

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:25:12  
Time Test Ended: 23:32:42  
Interval: **4365.00 ft (KB) To 4475.00 ft (KB) (TVD)**  
Total Depth: 4475.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3013.00 ft (KB)  
3003.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**  
Press@RunDepth: 372.51 psig @ 4366.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.08.22 End Date: 2022.08.22 Last Calib.: 2022.08.22  
Start Time: 16:01:47 End Time: 23:32:41 Time On Btm: 2022.08.22 @ 18:24:12  
Time Off Btm: 2022.08.22 @ 20:26:42

**TEST COMMENT:** IF: BOB in 3 1/2 mins. 65  
IS: Surface blow built to 6.  
FF: BOB in 6 mins. 37  
FS: 1/2 blow BOB in 14 mins. 30s



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.29	107.52	Initial Hydro-static
1	87.58	106.19	Open To Flow (1)
30	288.20	108.09	Shut-In(1)
60	1096.60	113.49	End Shut-In(1)
61	295.74	113.08	Open To Flow (2)
90	372.51	112.82	Shut-In(2)
122	1085.11	113.64	End Shut-In(2)
123	2182.25	114.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mw 50%w 50%m	0.31
252.00	w mcgo 20%g 50%o 10%w 20%m	1.92
378.00	mcgo 40%g 50%o 10%m	5.30
220.00	ocm 10%o 90%m	3.09
0.00	473 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**14-20s-34w Scott Ks**

4924 SE 84th St  
New ton Ks 67114

**Casablanca #4**

Job Ticket: 69128

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.08.22 @ 16:01:42

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:25:12

Time Test Ended: 23:32:42

**Interval: 4365.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Total Depth: 4475.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3013.00 ft (KB)

3003.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8790**

**Inside**

Press@RunDepth: psig @ 4366.00 ft (KB)

Start Date: 2022.08.22

End Date:

2022.08.22

Start Time: 16:01:41

End Time:

23:32:35

Capacity: 8000.00 psig

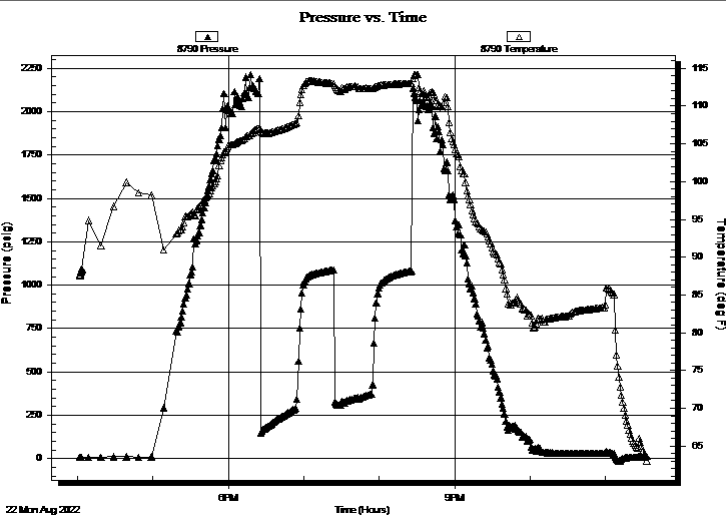
Last Calib.:

1899.12.30

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB in 3 1/2 mins. 65  
IS: Surface blow built to 6.  
FF: BOB in 6 mins. 37  
FS: 1/2 blow BOB in 14 mins. 30s



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mw 50%w 50%m	0.31
252.00	w mcgo 20%g 50%o 10%w 20%m	1.92
378.00	mcgo 40%g 50%o 10%m	5.30
220.00	ocm 10%o 90%m	3.09
0.00	473 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**14-20s-34w Scott Ks**

4924 SE 84th St  
New ton Ks 67114

**Casablanca #4**

Job Ticket: 69128

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.08.22 @ 16:01:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7500 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2150.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mw 50%w 50%m	0.310
252.00	w mcgo 20%g 50%o 10%w 20%m	1.923
378.00	mcgo 40%g 50%o 10%m	5.302
220.00	ocm 10%o 90%m	3.086
0.00	473 GIP	0.000

Total Length: 913.00 ft      Total Volume: 10.621 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 31@70=30

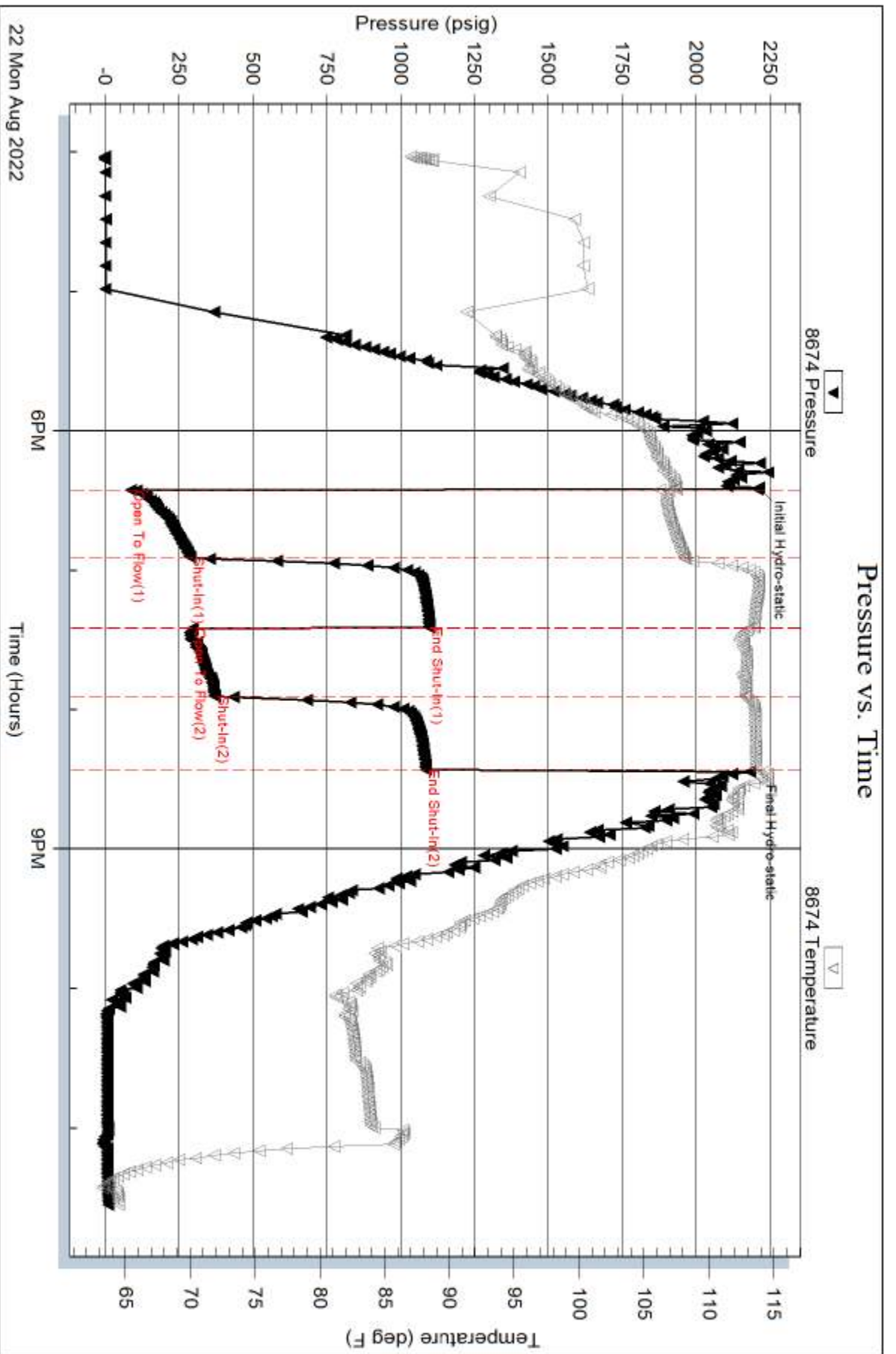
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Serial #: 8674

Outside Palomino Petroleum

Casablanca #4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69128

Printed: 2022.08.23 @ 07:08:04



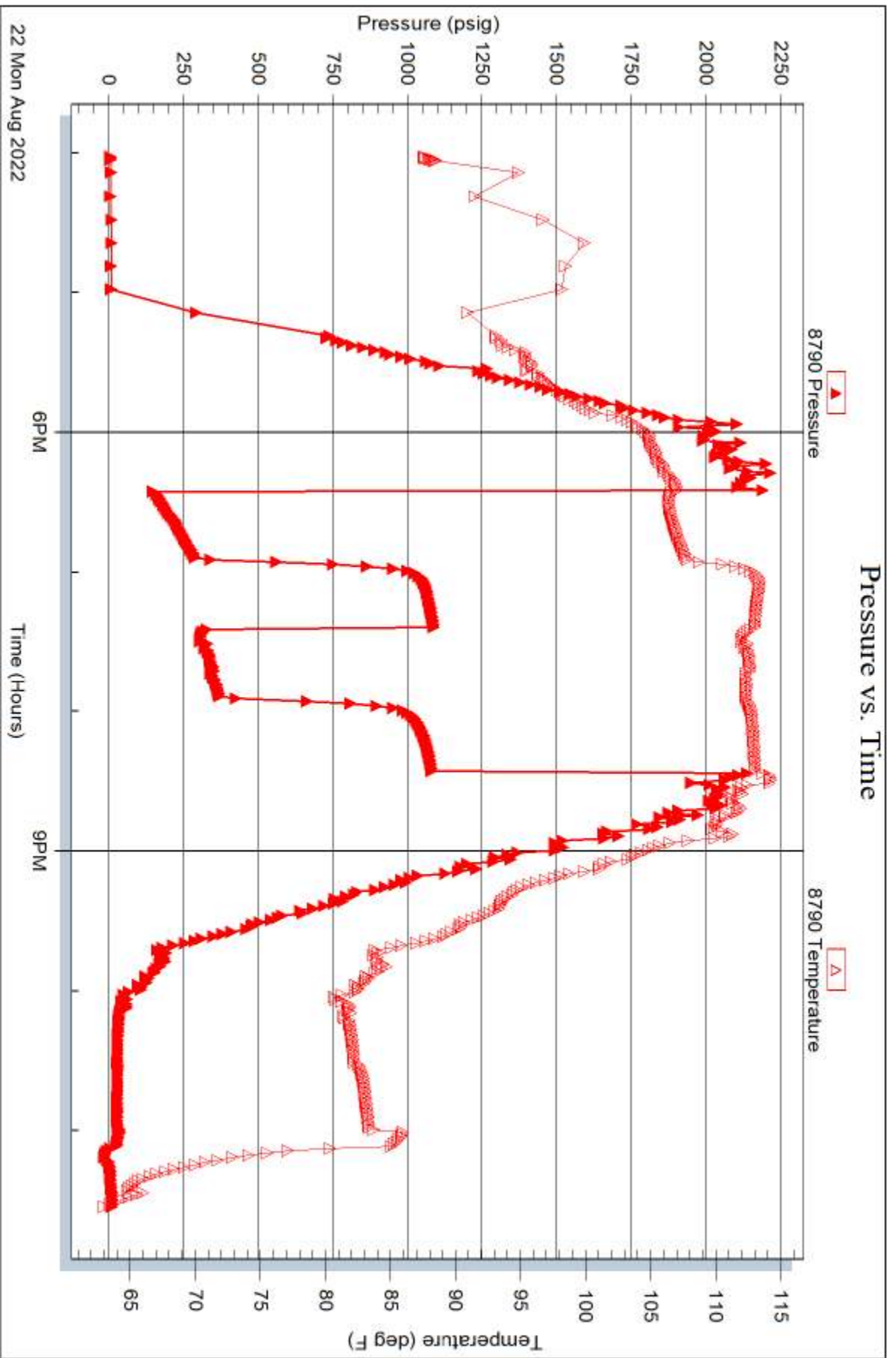
Serial #: 8790

Inside

Palomino Petroleum

Casablanca #4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69128

Printed: 2022.08.23 @ 07:08:04



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

### **Casablanca #4**

#### **14-20s-34w Scott,KS**

Start Date: 2022.08.22 @ 16:01:42

End Date: 2022.08.22 @ 23:32:42

Job Ticket #: 69128                      DST #: 1

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

Printed: 2022.08.25 @ 15:07:12



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

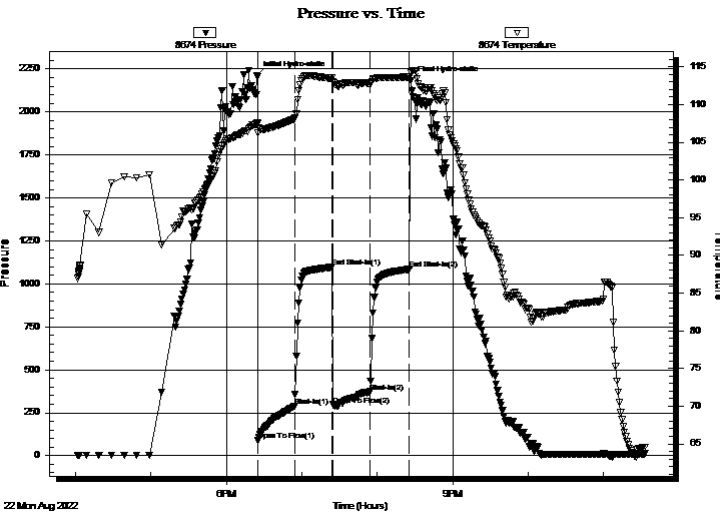
**14-20s-34w Scott,KS**  
**Casablanca #4**  
Job Ticket: 69128 **DST#: 1**  
Test Start: 2022.08.22 @ 16:01:42

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 18:25:12  
Time Test Ended: 23:32:42  
Interval: **4365.00 ft (KB) To 4475.00 ft (KB) (TVD)**  
Total Depth: 4475.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3013.00 ft (KB)  
3003.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**  
Press@RunDepth: 372.51 psig @ 4366.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.08.22 End Date: 2022.08.22 Last Calib.: 2022.08.22  
Start Time: 16:01:47 End Time: 23:32:41 Time On Btm: 2022.08.22 @ 18:24:12  
Time Off Btm: 2022.08.22 @ 20:26:42

**TEST COMMENT:** IF: BOB in 3 1/2 mins. 65"  
IS: Surface blow built to 6"  
FF: BOB in 6 mins. 37"  
FS: 1/2" blow BOB in 14 mins. 30s



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2212.29	107.52	Initial Hydro-static
1	87.58	106.19	Open To Flow (1)
30	288.20	108.09	Shut-In(1)
60	1096.60	113.49	End Shut-In(1)
61	295.74	113.08	Open To Flow (2)
90	372.51	112.82	Shut-In(2)
122	1085.11	113.64	End Shut-In(2)
123	2182.25	114.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mw 50%w 50%m	0.31
252.00	w mcgo 20%g 50%o 10%w 20%m	1.92
378.00	mcgo 40%g 50%o 10%m	5.30
220.00	ocm 10%o 90%m	3.09
0.00	473 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

14-20s-34w Scott, KS

4924 SE 84th St  
New ton KS 67114

**Casablanca #4**

Job Ticket: 69128

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.08.22 @ 16:01:42

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:25:12

Time Test Ended: 23:32:42

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 4365.00 ft (KB) To 4475.00 ft (KB) (TVD)**

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4475.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8790** **Inside**

Press@RunDepth: psig @ 4366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.22 End Date: 2022.08.22

Last Calib.: 1899.12.30

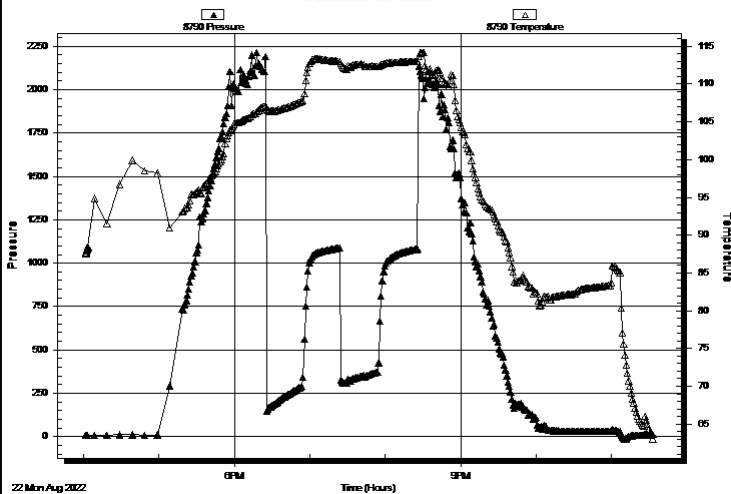
Start Time: 16:01:41 End Time: 23:32:35

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 3 1/2 mins. 65"  
IS: Surface blow built to 6"  
FF: BOB in 6 mins. 37"  
FS: 1/2" blow BOB in 14 mins. 30s

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mw 50%w 50%m	0.31
252.00	w mcgo 20%g 50%o 10%w 20%m	1.92
378.00	mcgo 40%g 50%o 10%m	5.30
220.00	ocm 10%o 90%m	3.09
0.00	473 GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**14-20s-34w Scott,KS**

4924 SE 84th St  
New ton KS 67114

**Casablanca #4**

Job Ticket: 69128

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.08.22 @ 16:01:42

## Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 59.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4365.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.00 ft			
Tool Length:	139.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4337.00	
Shut In Tool	5.00			4342.00	
Hydraulic tool	5.00			4347.00	
Jars	5.00			4352.00	
EM Tool	2.00			4354.00	
Safety Joint	2.00			4356.00	
Packer	5.00			4361.00	29.00 Bottom Of Top Packer
Packer	4.00			4365.00	
Stubb	1.00			4366.00	
Recorder	0.00	8790	Inside	4366.00	
Recorder	0.00	8674	Outside	4366.00	
Perforations	9.00			4375.00	
Change Over Sub	1.00			4376.00	
Drill Pipe	95.00			4471.00	
Change Over Sub	1.00			4472.00	
Bullnose	3.00			4475.00	110.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>139.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**14-20s-34w Scott,KS**

4924 SE 84th St  
New ton KS 67114

**Casablanca #4**

Job Ticket: 69128

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2022.08.22 @ 16:01:42

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

7500 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2150.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
63.00	mw 50%w 50%m	0.310
252.00	w mcgo 20%g 50%o 10%w 20%m	1.923
378.00	mcgo 40%g 50%o 10%m	5.302
220.00	ocm 10%o 90%m	3.086
0.00	473 GIP	0.000

Total Length: 913.00 ft      Total Volume: 10.621 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

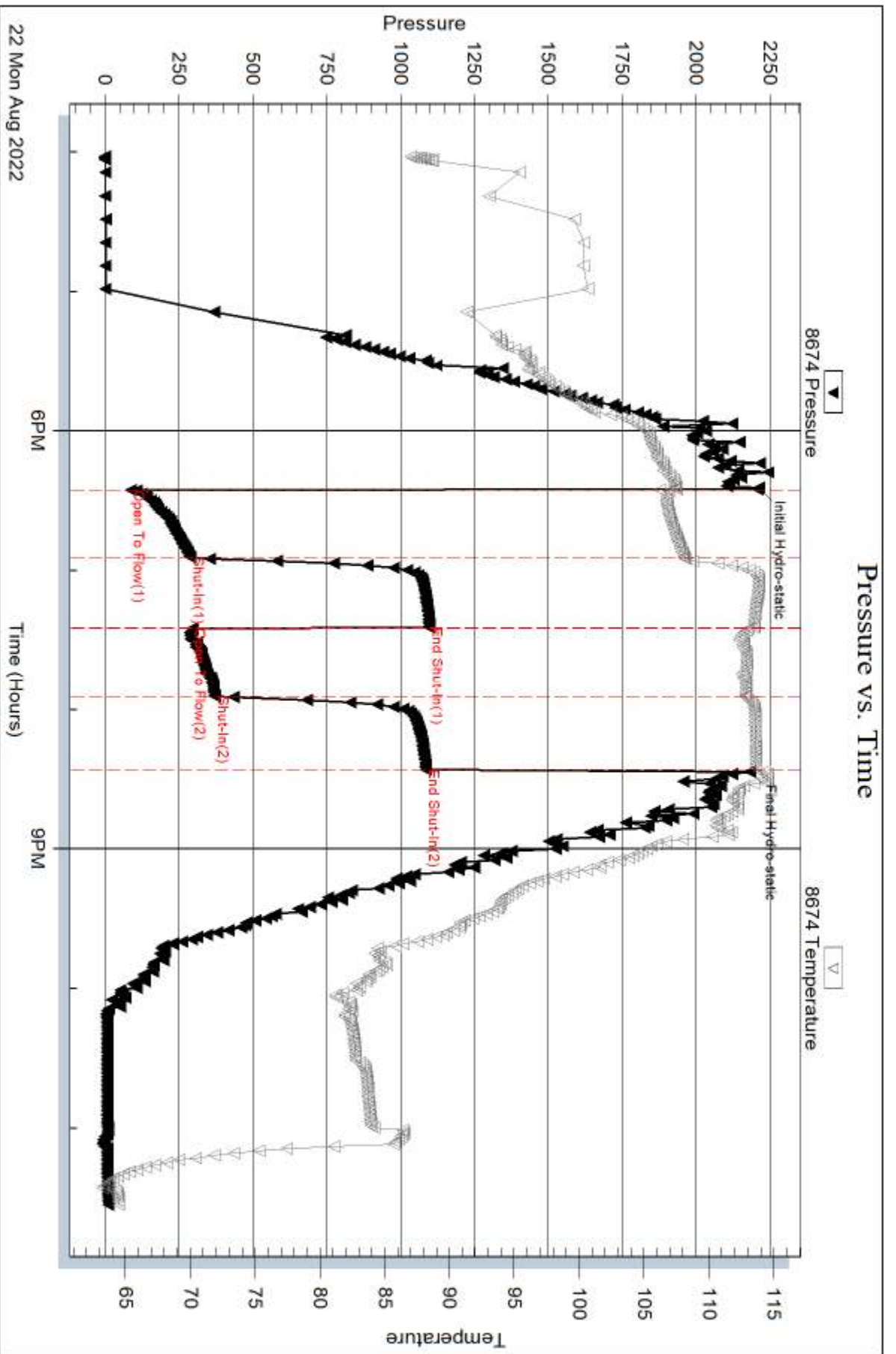
Laboratory Name:

Laboratory Location:

Recovery Comments: 31@70=30

.95@61=7500





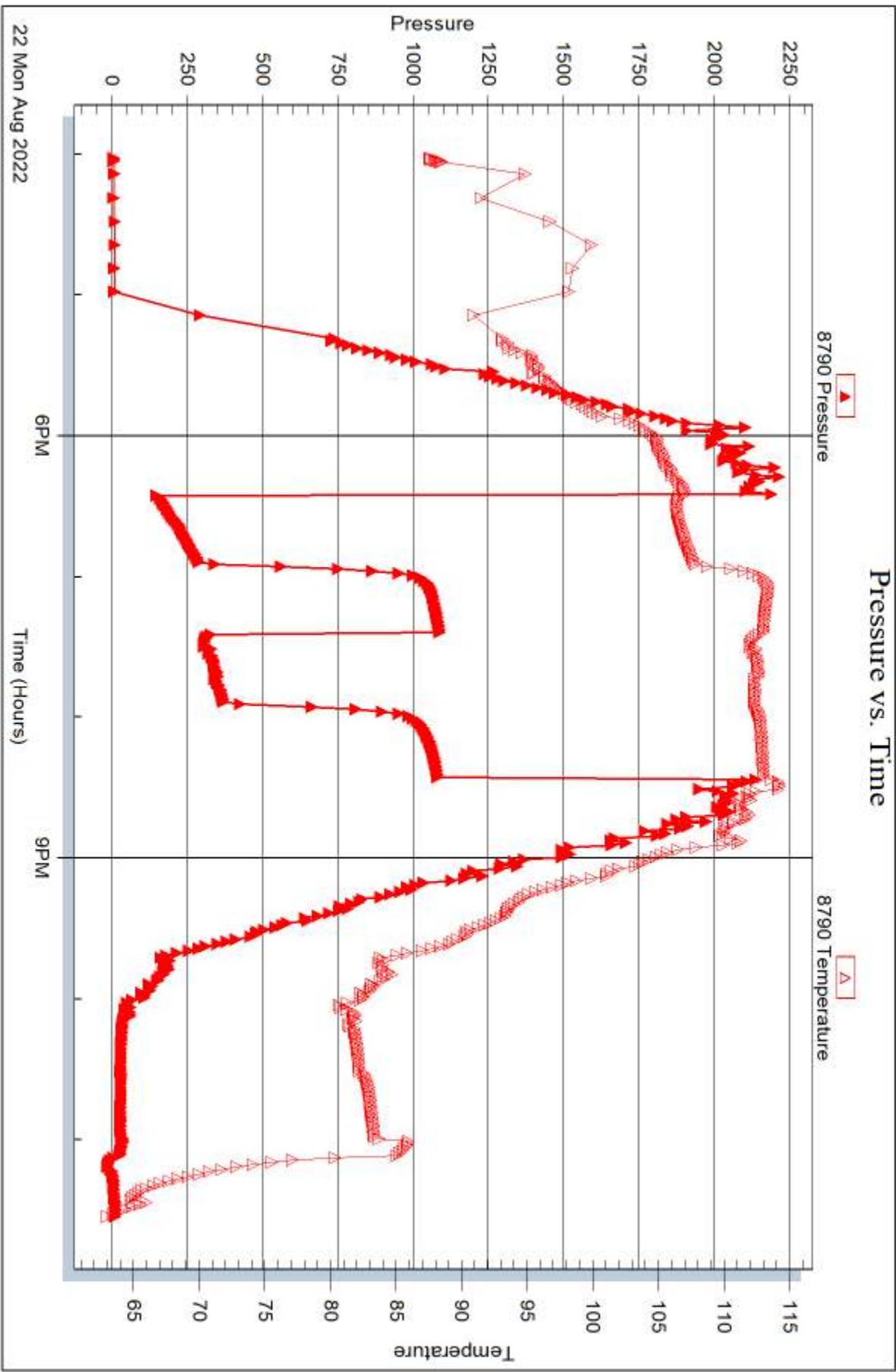
Serial #: 8790

Inside

Palomino Petroleum

Casablanca #4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69128

Printed: 2022.08.25 @ 15:07:13



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton KS 67114

ATTN: Ryan Seib

### **Casablanca #4**

#### **14-20s-34w Scott,KS**

Start Date: 2022.08.23 @ 08:40:27

End Date: 2022.08.23 @ 15:05:27

Job Ticket #: 69129                      DST #: 2

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

Printed: 2022.08.25 @ 15:05:57





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

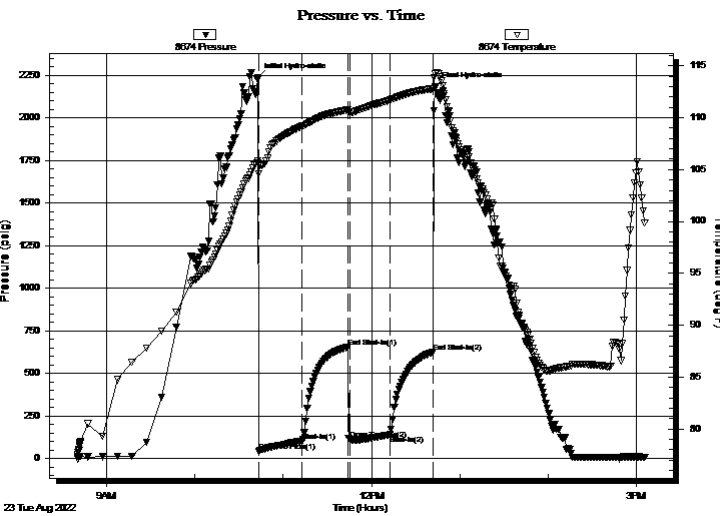
**14-20s-34w Scott,KS**  
**Casablanca #4**  
Job Ticket: 69129 **DST#: 2**  
Test Start: 2022.08.23 @ 08:40:27

## GENERAL INFORMATION:

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:43:27  
Time Test Ended: 15:05:27  
Interval: **4477.00 ft (KB) To 4550.00 ft (KB) (TVD)**  
Total Depth: 4550.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Reference Elevations: 3013.00 ft (KB)  
3003.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**  
Press@RunDepth: 137.75 psig @ 4478.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2022.08.23 End Date: 2022.08.23 Last Calib.: 2022.08.23  
Start Time: 08:40:32 End Time: 15:05:26 Time On Btm: 2022.08.23 @ 10:42:57  
Time Off Btm: 2022.08.23 @ 12:43:27

TEST COMMENT: IF: BOB in 5 mins. 47"  
IS: 6 1/2" return.  
FF: BOB in 5 mins. 52"  
FS: BOB in 17 mins. 11" 30s



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.53	105.88	Initial Hydro-static
1	41.44	104.56	Open To Flow (1)
30	99.17	109.17	Shut-In(1)
61	654.37	110.75	End Shut-In(1)
63	112.19	110.55	Open To Flow (2)
90	137.75	111.69	Shut-In(2)
119	624.71	112.79	End Shut-In(2)
121	2180.54	114.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	mcgo 10%g 70%o 20%m	1.18
83.00	mcgo 20%g 60%o 20%m	1.16
0.00	1681 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

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

**14-20s-34w Scott,KS**  
**Casablanca #4**  
Job Ticket: 69129 **DST#: 2**  
Test Start: 2022.08.23 @ 08:40:27

**GENERAL INFORMATION:**

Formation: **Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:43:27  
Time Test Ended: 15:05:27

Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79

**Interval: 4477.00 ft (KB) To 4550.00 ft (KB) (TVD)**  
Total Depth: 4550.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

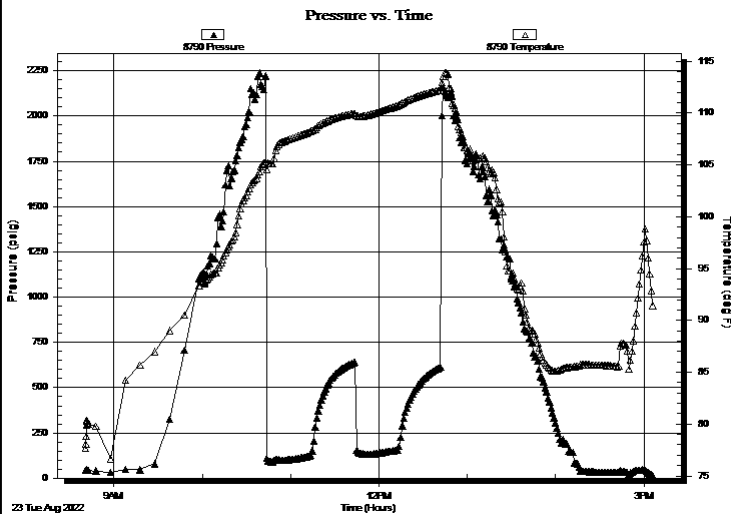
Reference Elevations: 3013.00 ft (KB)  
3003.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8790 Inside**

Press@RunDepth: psig @ 4478.00 ft (KB)  
Start Date: 2022.08.23 End Date: 2022.08.23  
Start Time: 08:40:53 End Time: 15:05:47

Capacity: 8000.00 psig  
Last Calib.: 2022.08.23  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: BOB in 5 mins. 47"  
IS: 6 1/2" return.  
FF: BOB in 5 mins. 52"  
FS: BOB in 17 mins. 11" 30s



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
240.00	mco 10%g 70%o 20%m	1.18
83.00	mco 20%g 60%o 20%m	1.16
0.00	1681 GIP	0.00

**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

**14-20s-34w Scott,KS**

4924 SE 84th St  
New ton KS 67114

**Casablanca #4**

Job Ticket: 69129

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.08.23 @ 08:40:27

## Tool Information

Drill Pipe:	Length: 4225.00 ft	Diameter: 3.80 inches	Volume: 59.27 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 60.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4477.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00		Fluid	4449.00	
Shut In Tool	5.00			4454.00	
Hydraulic tool	5.00			4459.00	
Jars	5.00			4464.00	
EM Tool	2.00			4466.00	
Safety Joint	2.00			4468.00	
Packer	5.00			4473.00	29.00 Bottom Of Top Packer
Packer	4.00			4477.00	
Stubb	1.00			4478.00	
Recorder	0.00	8790	Inside	4478.00	
Recorder	0.00	8674	Outside	4478.00	
Perforations	4.00			4482.00	
Change Over Sub	1.00			4483.00	
Drill Pipe	63.00			4546.00	
Change Over Sub	1.00			4547.00	
Bullnose	3.00			4550.00	73.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>102.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**14-20s-34w Scott,KS**

4924 SE 84th St  
New ton KS 67114

**Casablanca #4**

Job Ticket: 69129

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.08.23 @ 08:40:27

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2150.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	mcgo 10%g 70%o 20%m	1.180
83.00	mcgo 20%g 60%o 20%m	1.164
0.00	1681 GIP	0.000

Total Length: 323.00 ft

Total Volume: 2.344 bbl

Num Fluid Samples: 0

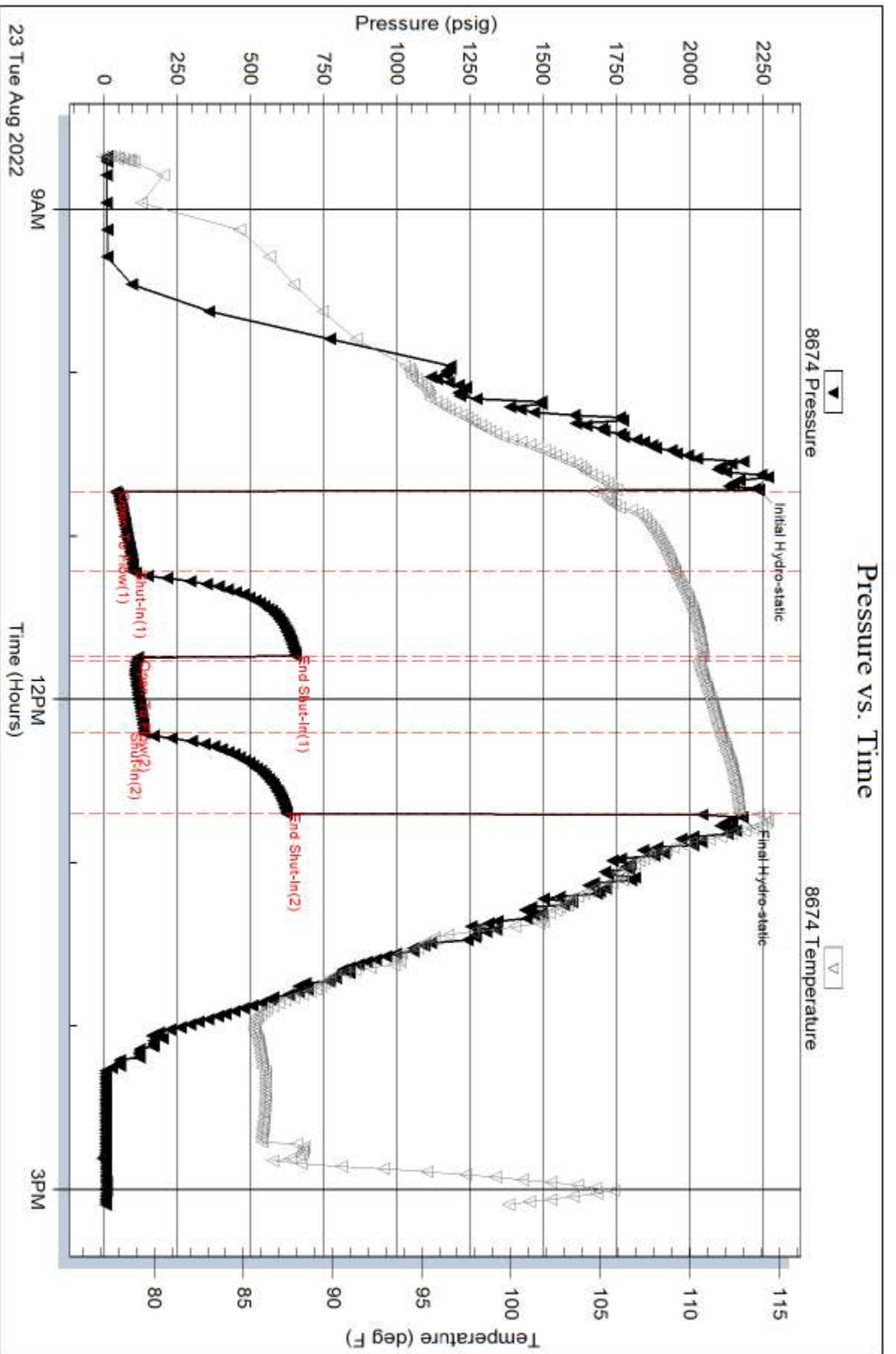
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



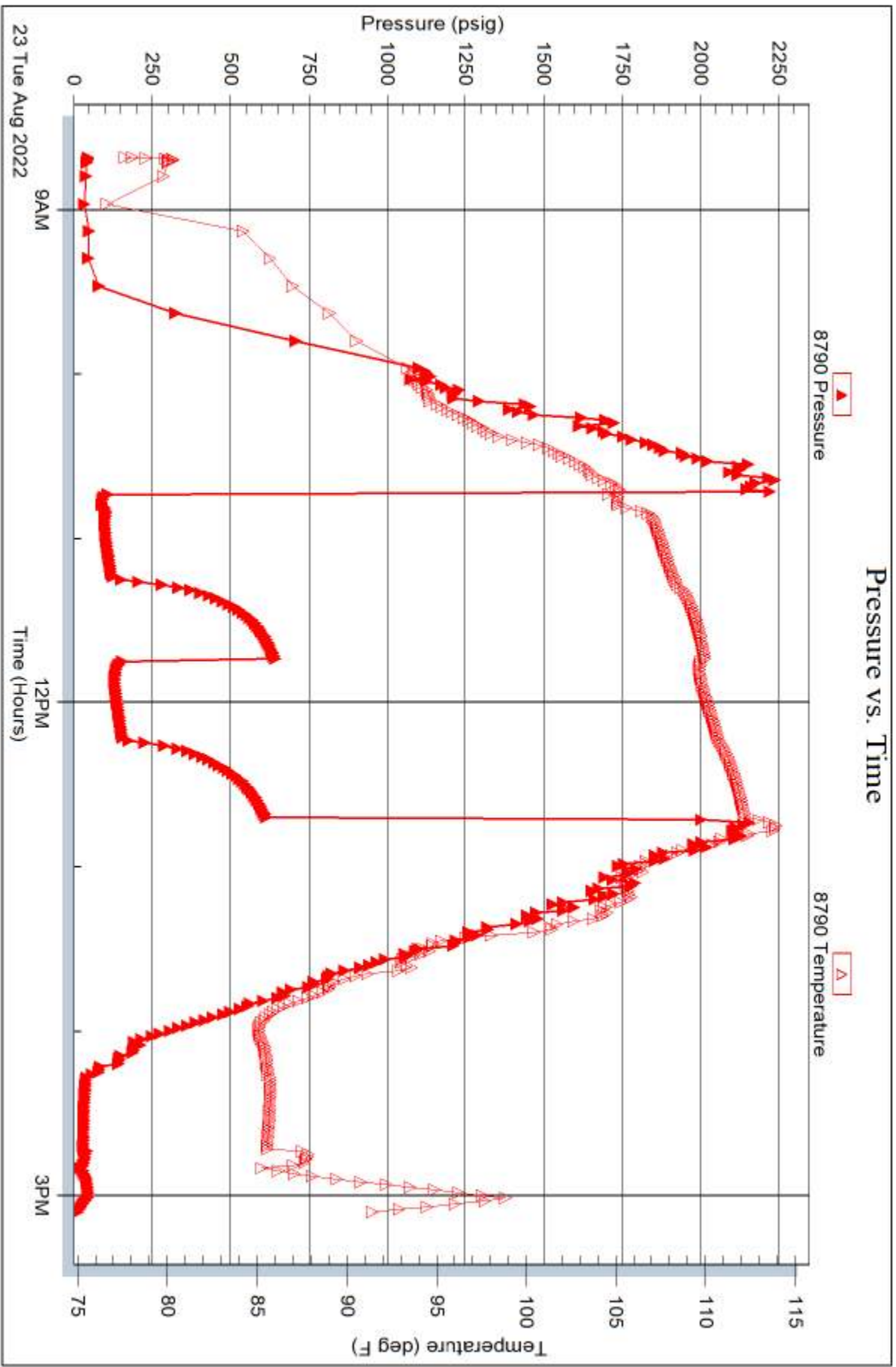
Serial #: 8790

Inside

Palomino Petroleum

Casablanca #4

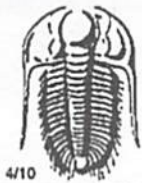
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 69129

Printed: 2022.08.25 @ 15:06:03



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69128

Well Name & No. C958619nc9 #4 Test No. 1 Date 8-22-22  
 Company Palomino Elevation 3013 KB 3003 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig Martin 21  
 Location: Sec. 14 Twp 20S Rge. 34W Co. Scott State KS

Interval Tested 4365 4475 Zone Tested Morrison  
 Anchor Length 110 Drill Pipe Run 4126 Mud Wt. 9.3  
 Top Packer Depth 4360 Drill Collars Run 240 Vis 63  
 Bottom Packer Depth 4365 Wt. Pipe Run — WL 8.8  
 Total Depth 4475 Chlorides 2150 ppm System LCM 8  
 Blow Description IF: BoB in 3 1/2, 65"  
IS: 1/4 blow built to 6,  
IF: BoB in 6 min, 37"  
FS: 1/2 blow BoB in 14 min.

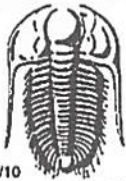
Rec	Feet of	%gas	%oil	%water	%mud
<u>220</u>	<u>OCM</u>	<u>10</u>	<u>—</u>	<u>90</u>	<u>—</u>
<u>378</u>	<u>MC90</u>	<u>40</u>	<u>50</u>	<u>10</u>	<u>—</u>
<u>252</u>	<u>WMC90</u>	<u>20</u>	<u>50</u>	<u>10</u>	<u>20</u>
<u>63</u>	<u>MW</u>	<u>—</u>	<u>50</u>	<u>50</u>	<u>—</u>

Rec Total 913 BHT 114 Gravity 30 API RW .95 @ 61 °F Chlorides 7500 ppm

(A) Initial Hydrostatic 2212  Test 1950 T-On Location 14:15  
 (B) First Initial Flow 87  Jars 300 T-Started 16:01  
 (C) First Final Flow 288  Safety Joint T-Open 18:25  
 (D) Initial Shut-In 1096  Circ Sub MW T-Pulled 20:25  
 (E) Second Initial Flow 295  Hourly Standby T-Out 23:33  
 (F) Second Final Flow 372  Mileage 41 - 61.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1085  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2182  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2311.50  
 Sub Total 2311.50 MP/DST Disc't \_\_\_\_\_

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69129

Well Name & No. C95461919 #4 Test No. 2 Date 8-23-22  
 Company Palomino Elevation 3013 KB 3003 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ryan Seib Rig Martin 21  
 Location: Sec. 14 Twp 20S Rge. 34W Co. Scott State KS

Interval Tested 4477 4550 Zone Tested Pawnee  
 Anchor Length 73 Drill Pipe Run 4225 Mud Wt. 9.3  
 Top Packer Depth 4472 Drill Collars Run 240 Vis 6.3  
 Bottom Packer Depth 4477 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4550 Chlorides 2150 ppm System LCM 8  
 Blow Description IF: BoB in 5 mins. 47"  
IS: 6 1/2" return.  
FF: BoB in 5 mins. 52  
FS: BoB in 17 mins 11

Rec	Feet of	%gas	%oil	%water	%mud
<u>83</u>	<u>MC90</u>	<u>20</u>	<u>60</u>	<u>20</u>	
<u>240</u>	<u>MC90</u>	<u>10</u>	<u>70</u>	<u>20</u>	
	<u>1681 GFP</u>				

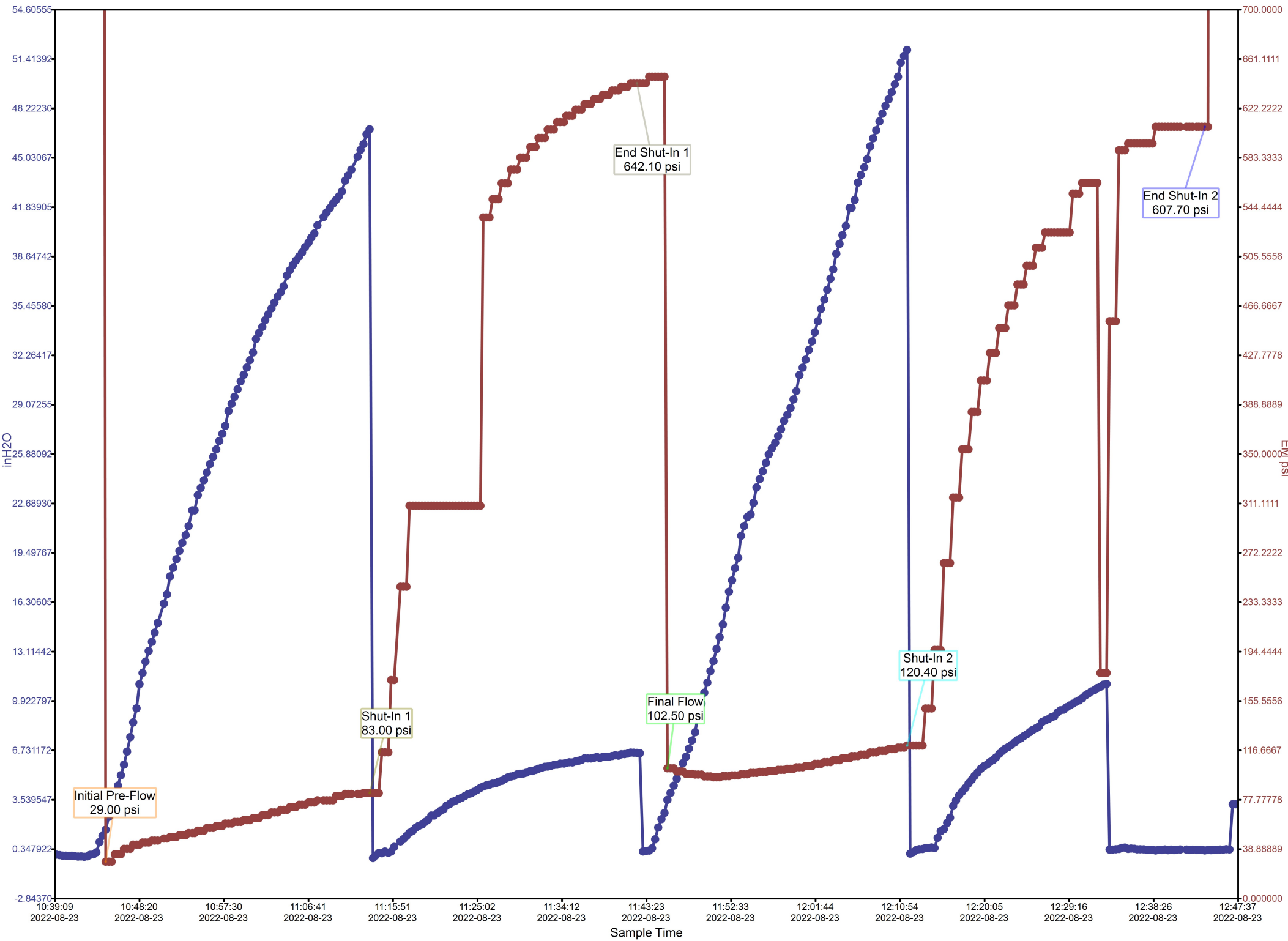
Rec Total 323 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2236  Test 1950 T-On Location 7:40  
 (B) First Initial Flow 41  Jars 300 T-Started 8:40  
 (C) First Final Flow 99  Safety Joint \_\_\_\_\_ T-Open 10:43  
 (D) Initial Shut-In 654  Circ Sub NIL T-Pulled 12:43  
 (E) Second Initial Flow 112  Hourly Standby \_\_\_\_\_ T-Out 15:07  
 (F) Second Final Flow 137  Mileage 41-42 61.50+61.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 624  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2180  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2373 Sub Total 0  
 Total 2373 MP/DST Disc't \_\_\_\_\_

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



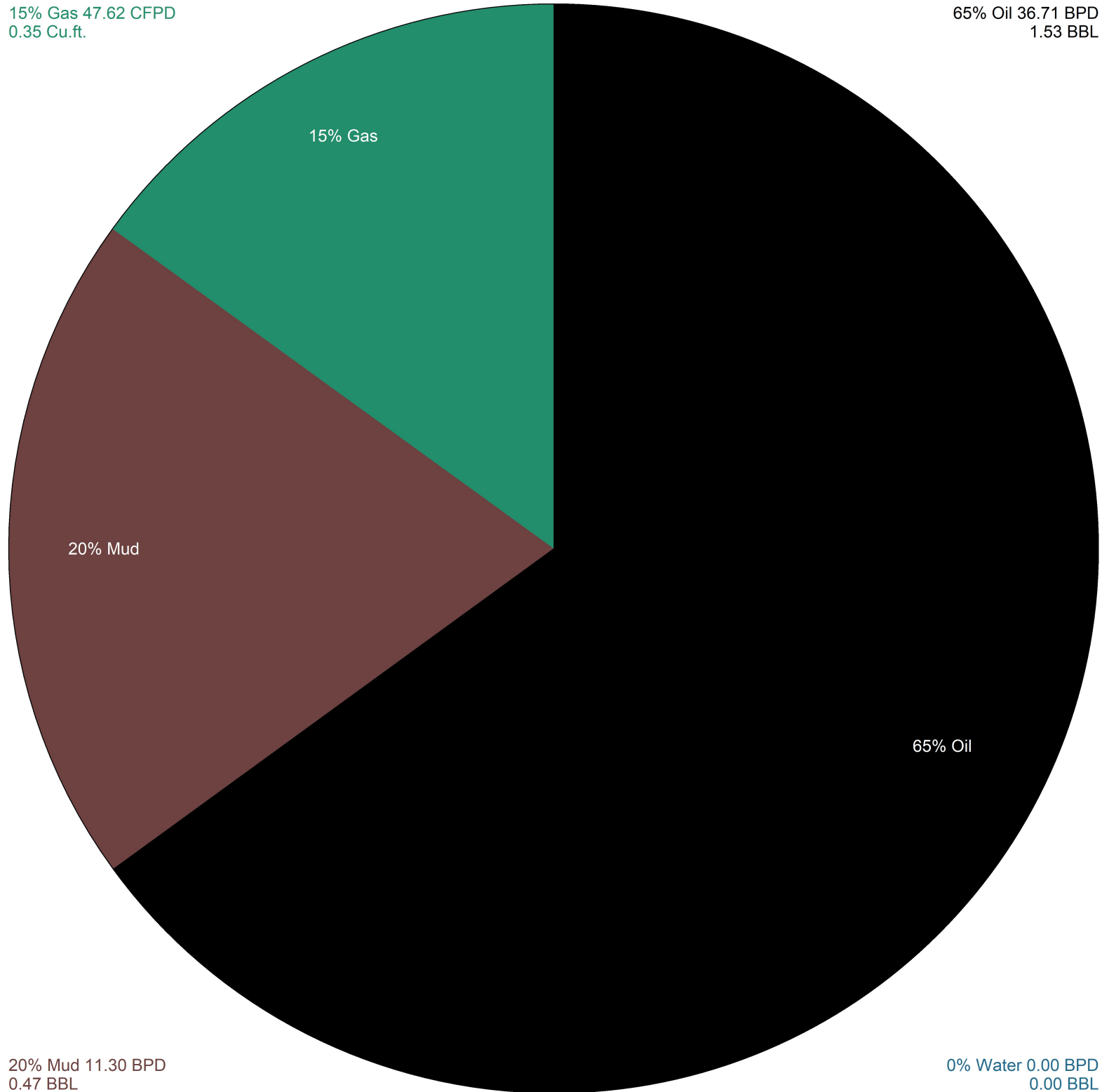
# Palomino Petroleum - Casablanca 4 - DST #2



Calculated Recovery Analysis - Palomino Petroleum - Casablanca 4 - DST #2

15% Gas 47.62 CFPD  
0.35 Cu.ft.

65% Oil 36.71 BPD  
1.53 BBL



20% Mud

15% Gas

65% Oil

20% Mud 11.30 BPD  
0.47 BBL

0% Water 0.00 BPD  
0.00 BBL



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

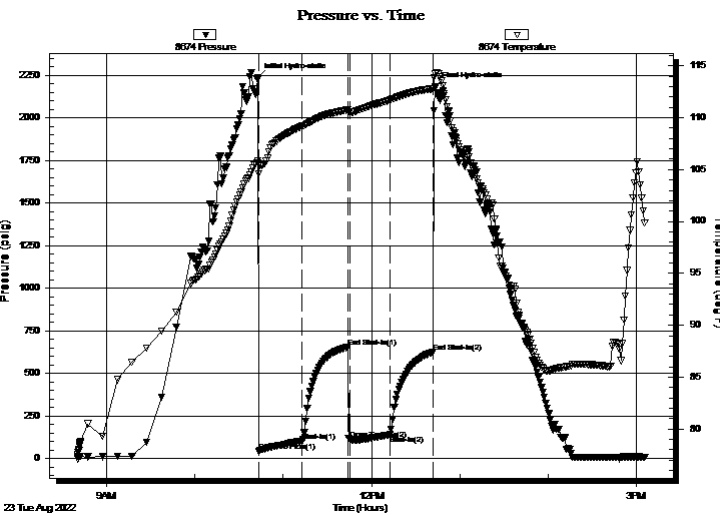
**14-20s-34w Scott Ks**  
**Casablanca #4**  
 Job Ticket: 69129 **DST#: 2**  
 Test Start: 2022.08.23 @ 08:40:27

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:43:27  
 Time Test Ended: 15:05:27  
 Interval: **4477.00 ft (KB) To 4550.00 ft (KB) (TVD)**  
 Total Depth: 4550.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 3013.00 ft (KB)  
 3003.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8674 Outside**  
 Press@RunDepth: 137.75 psig @ 4478.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.08.23 End Date: 2022.08.23 Last Calib.: 2022.08.23  
 Start Time: 08:40:32 End Time: 15:05:26 Time On Btm: 2022.08.23 @ 10:42:57  
 Time Off Btm: 2022.08.23 @ 12:43:27

TEST COMMENT: IF: BOB in 5 mins. 47"  
 IS: 6 1/2 return.  
 FF: BOB in 5 mins. 52"  
 FS: BOB in 17 mins. 11" 30s



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.53	105.88	Initial Hydro-static
1	41.44	104.56	Open To Flow (1)
30	99.17	109.17	Shut-In(1)
61	654.37	110.75	End Shut-In(1)
63	112.19	110.55	Open To Flow (2)
90	137.75	111.69	Shut-In(2)
119	624.71	112.79	End Shut-In(2)
121	2180.54	114.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	mcgo 10%g 70%o 20%m	1.18
83.00	mcgo 20%g 60%o 20%m	1.16
0.00	1681 GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**14-20s-34w Scott Ks**

4924 SE 84th St  
New ton Ks 67114

**Casablanca #4**

Job Ticket: 69129

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.08.23 @ 08:40:27

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:43:27

Time Test Ended: 15:05:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

**Interval: 4477.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Reference Elevations: 3013.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

3003.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8790 Inside**

Press@RunDepth: psig @ 4478.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.08.23

End Date: 2022.08.23

Last Calib.: 2022.08.23

Start Time: 08:40:53

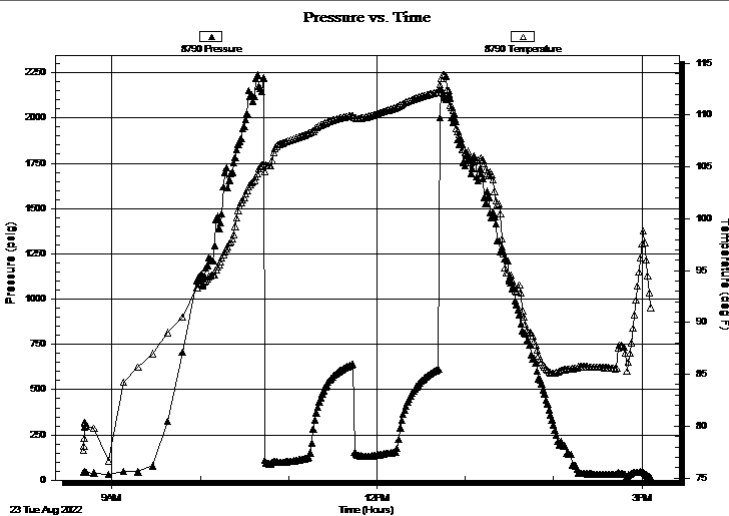
End Time: 15:05:47

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: BOB in 5 mins. 47"  
IS: 6 1/2 return.  
FF: BOB in 5 mins. 52"  
FS: BOB in 17 mins. 11" 30s

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	mcgo 10%g 70%o 20%m	1.18
83.00	mcgo 20%g 60%o 20%m	1.16
0.00	1681 GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**14-20s-34w Scott Ks**

4924 SE 84th St  
New ton Ks 67114

**Casablanca #4**

Job Ticket: 69129

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2022.08.23 @ 08:40:27

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2150.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	mcgo 10%g 70%o 20%m	1.180
83.00	mcgo 20%g 60%o 20%m	1.164
0.00	1681 GIP	0.000

Total Length: 323.00 ft

Total Volume: 2.344 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

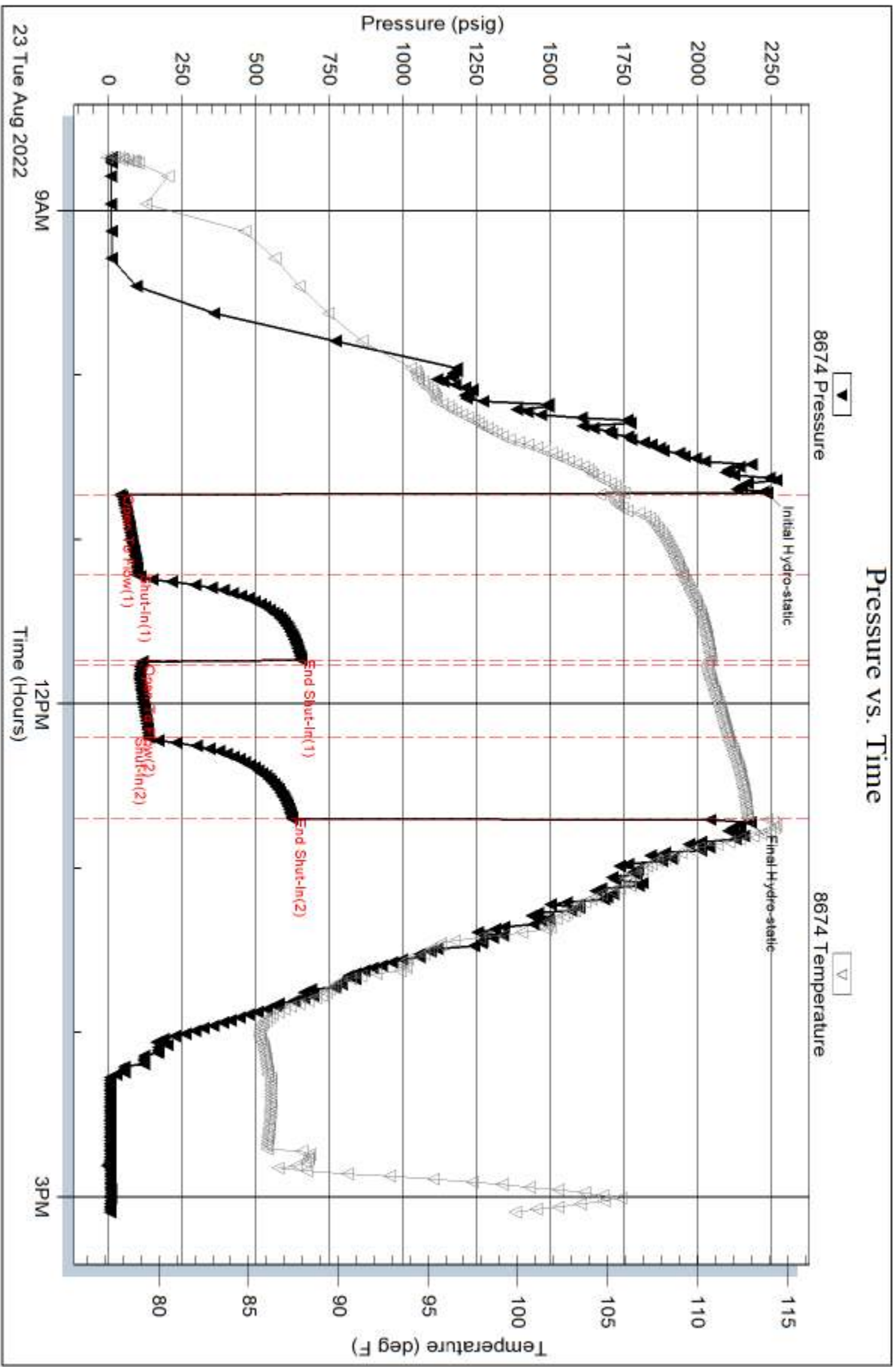


Serial #: 8674

Outside Palomino Petroleum

Casablanca #4

DST Test Number: 2



Serial #: 8790

Inside

Palomino Petroleum

Casablanca #4

DST Test Number: 2

