



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

RECEIVED

JUL 17 2017

# Invoice

DATE	INVOICE #
7/11/2017	30600

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Butterfield	Gove	Express Well Serv...	Oil	Development	Cement 5 1/2 Por...	David K.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,250.00	1,250.00
330	Swift Multi-Density Standard (MIDCON II)				200	Sacks	15.75	3,150.00T
276	Flocele				50	Lb(s)	2.25	112.50T
290	D-Air				2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man				1	Each	275.00	275.00T
581D	Service Charge Cement				220	Sacks	1.50	330.00
583D	Drayage				547	Ton Miles	0.75	410.25
	Subtotal							5,861.75
	Sales Tax Gove County						8.50%	307.83

**We Appreciate Your Business!**

**Total**

\$6,169.58



Services, Inc.

CHARGE TO: Planning Petroleum

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30600

PAGE 1 OF 1

1. SERVICE LOCATION	WELL/PROJECT NO	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
Ness City KS	A2	Buller Field	Gove	KS	Ukiah	7-11-17	Some
2. TICKET TYPE	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.	WELL LOCATION	
SALES	Express	Well Service	CT	Location		Ukiah-52y 21th	
3. WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.				
Oil	Development	Cement 5 1/2" Post Collar					
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575				MILEAGE			50	mi	5.00	250.00
576 D				Pump Charge - Post Collar	5 1/2	in	1	job	1250.00	1250.00
330				SMB Cement			200	lbs	15.75	3150.00
276				Floacle	1 1/4	lb	50	lbs	2.35	112.50
240				D-Air			2	gal	42.00	84.00
105				Post Collar Opening Tool Rental	5 1/2	in	1	job	275.00	275.00
581				Service Charge Cement			220	lbs	1.50	330.00
583				Drayage	21880	lbs	547	tn	00.75	410.25

**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**

DATE SIGNED: 7-11-17 TIME SIGNED: 3:45 P.M.

SIGNED: *[Signature]*

SWIFT OPERATOR: David Huehn

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: *[Signature]* APPROVAL

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

SURVEY:  OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  WE UNDERSTOOD AND MET YOUR NEEDS?  OUR SERVICE WAS PERFORMED WITHOUT DELAY?  WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  ARE YOU SATISFIED WITH OUR SERVICE?  YES  NO

CUSTOMER DID NOT WISH TO RESPOND

TOTAL: 6169.58

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 7-11-17 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #2 LEASE Butterfield JOB TYPE Cement 5 1/2" Port Collar TICKET NO. #30600

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							on location
								P.C. - 1930' 2 7/8" x 5 1/2"
	1230	∅	∅		✓		1000	Pressure test * Hold *
								open P.C.
		3 1/2	5		✓		300	Injection Rate
	1235	4	110		✓		250	mix 200 sks SMD w/ 1/4" Flo @ 11.2 fpg circulate Cement to surface
		4	11		✓		400	Displace Cement
	1305	∅	∅		✓		1000	Close P.C. Test * Hold *
								Run 4 sks
	1315	3 1/2	25		✓		300	Reverse clean * 200 Total sks * * 20 pit *
								wash up trucks
	1345							Job Complete

Thanks You  
Dave Preston Kirby



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

RECEIVED

JUL 13 2017

# Invoice

DATE	INVOICE #
7/3/2017	30432

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

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Buttefield	Gove	WW Drilling Rig #8	Oil	Development	Long String	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				50	Miles	5.00	250.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
290	D-Air				5	Gallon(s)	42.00	210.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
403-5	5 1/2" Cement Basket				1	Each	250.00	250.00T
404-5	5 1/2" Port Collar				1	Each	2,500.00	2,500.00T
406-5	5 1/2" Latch Down Plug & Baffle				1	Each	225.00	225.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill				1	Each	300.00	300.00T
409-5	5 1/2" Turbolizer				11	Each	75.00	825.00T
419-5	5 1/2" Rotating Head Rental				1	Each	200.00	200.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	15.75	1,968.75T
325	Standard Cement				100	Sacks	12.25	1,225.00T
284	Calseal				5	Sack(s)	30.00	150.00T
283	Salt				550	Lb(s)	0.20	110.00T
285	CFR-1				50	Lb(s)	4.50	225.00T
276	Flocele				60	Lb(s)	2.25	135.00T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				558	Ton Miles	0.75	418.50
	Subtotal							11,304.75
	Sales Tax Gove County						8.50%	769.14

**We Appreciate Your Business!**

**Total**

\$12,073.89



Services, Inc.

CHARGE TO: Palomino Petroleum  
ADDRESS  
CITY, STATE, ZIP CODE

TICKET 30432

WELL PROJECT NO. # 2  
CONTRACTOR: Long Drilling  
WELL TYPE: O-11  
WELL CATEGORY: Development  
JOB PURPOSE: Long String

LEASE: Butterfield  
COUNTY/PARISH: Gove  
RIG NAME/NO.: Rig # 8  
STATE: KS  
CITY: Location  
DATE: 7-3-17  
ORDER NO.  
WELL LOCATION

PAGE 1 OF

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING LOC ACCT DF	DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
575			MILEAGE TRIP # 1111	50	Mi			5	250
573			Rover Charge - Long String	1	EA			1250	1250
290			D-R-R	5	EA			42	210
281			Liquid Seal	4	EA			25	100
403			Mudflush	500	EA			1	625
404			Cement Basket	1	EA	5/2		250	250
406			Port Collar	1	EA			2500	2500
402			Catch Down Plug & Baffle	1	EA			285	285
409			Insert Flange w/ Hand Fill	1	EA			300	300
402			Turboliner	11	EA			75	825
402			Rotating Head Rental	1	EA			200	200

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

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

SURVEY	AGREE	UN-DECIDED	DIS-AGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	TOTAL
6735 00	12013 89
4569 25	
11304 75	
819 14	
8590	

SWIFT OPERATOR: David Edgerton APPROVAL: \_\_\_\_\_

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: \_\_\_\_\_

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE

7-3-17

PAGE NO.

CUSTOMER

Palomino Petroleum

WELL NO.

# 2

LEASE

Butterfield

JOB TYPE

Long String

TICKET NO.

30432

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	18:30							On location
								Csg - 5 1/2 x 14 #
								RTO - 4450
								TOTAL Pipe - 4450.29
								STHOE JT - 38.00 e 4414.29
								CENTRALIZERS - 1,3,5,7,9,10,11,12,14,16,18,16
								Basket - 66
								Port Collar - 66 e 1929'
	19:50							Start Running Csg
	22:00							Break Circ on Bottom
	22:45	6	12			250		Pump Mudflush - 500 gal
		6	20			250		Pump Kel Spacer -
		2.5	11			0		Plug Rat Hole - 30 sks cmt
	23:00	7	36			200		Pump SMD CMT
		4.5	60			200		Pump EA-2 CMT
								Drop plug
	23:15	7.5	0			0		Start Disp
		7.5	75			400		Catch Psi
	23:30	7.5	108			900		Land Plug lift psi - 900 psi
								LAND psi - 1600 psi
								Release Psi - Dry
								Thanks
								David, Austin & Kirby



RECEIVED

JUN 28 2017

Date: 6/24/2017  
Invoice # 1575

**QUALITY OILWELL CEMENTING, INC.**  
PO BOX 32 - 740 WEST WICHITA AVE, RUSSELL KS 67665  
PHONE:785-324-1041 FAX:785-483-1087  
EMAIL: cementing@ruraltel.net

P.O.#:  
Due Date: 7/24/2017  
Division: *Russell*

# Invoice

**Contact:**  
Palomino Petroleum Inc  
**Address/Job Location:**

4924 SE 84th  
Newton Ks 67114

**Reference:**  
BUTTERFIELD 2 SEC 11-14-26

**Description of Work:**  
SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 601.97	No				
Common-Class A	120	\$ 1,344.00	Yes				
Calcium Chloride	6	\$ 226.70	Yes				
POZ Mix-Standard	30	\$ 141.69	Yes				
Pump Truck Mileage-Job to Nearest Camp	44	\$ 133.59	No				
Bulk Truck Matl-Material Service Charge	159	\$ 107.28	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	44	\$ 103.90	No				
Premium Gel (Bentonite)	3	\$ 58.70	Yes				

**Invoice Terms:**

Net 30

	<i>SubTotal:</i>	\$ 2,717.82
	<i>Discount Available <u>ONLY</u> if Invoice is Paid &amp; Received within listed terms of invoice:</i>	\$ (67.95)
<hr/>		
	SubTotal for Taxable Items:	\$ 1,726.81
	SubTotal for Non-Taxable Items:	\$ 923.07
<hr/>		
	Total:	\$ 2,649.87
	Tax:	\$ 146.78
	<b>Amount Due:</b>	<b>\$ 2,796.65</b>
	<b>Applied Payments:</b>	
	<b>Balance Due:</b>	<b>\$ 2,796.65</b>

8.50% Gove County Sales Tax

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)

This does not include any applicable taxes unless it is listed.

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# QUALITY OILWELL CEMENTING, INC.

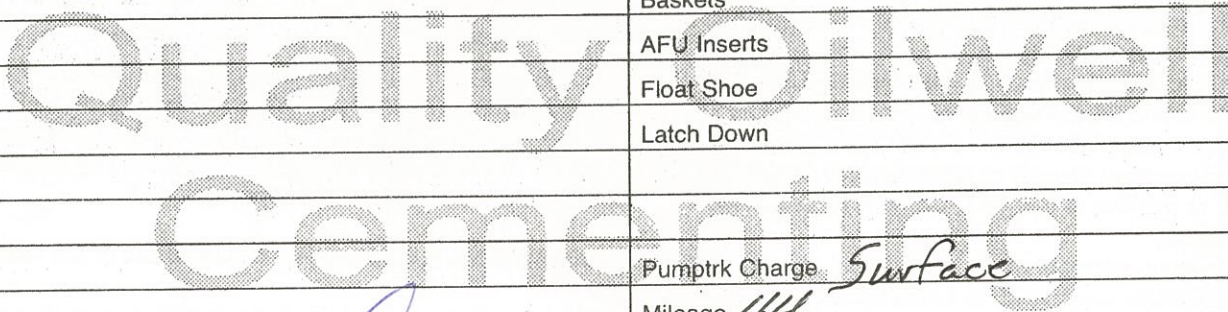
Federal Tax I.D.# 20-2886107

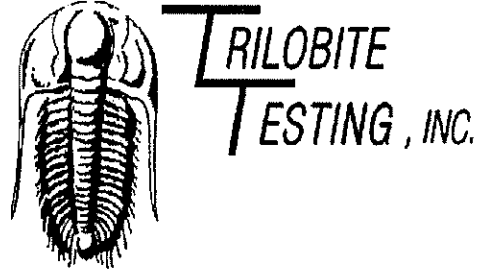
Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 1575

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-24-17	11	14	26	Carroll	KS		8:29 am
Lease <u>Bittersfield</u>				Well No. <u>2</u>		Location <u>Quarter 5 12 mi NE 2nd Ninto</u>	
Contractor <u>WW 8</u>				Owner To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Type Job <u>Surface</u>				Charge To <u>Palombaro Petroleum</u>			
Hole Size <u>12 1/4</u>		T.D. <u>219</u>		Street			
Csg. <u>8 5/8</u>		Depth <u>218</u>		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <u>10'</u>		Shoe Joint		Cement Amount Ordered <u>150 8/20 3/11 2/10 2/10 2/10</u>			
Meas Line		Displace <u>13BC</u>		Common <u>130 120</u>			
<b>EQUIPMENT</b>				Poz. Mix <u>30</u>			
Pumptrk <u>20</u>	No.	Cementer <u>[Signature]</u>		Gel. <u>3</u>			
		Helper <u>[Signature]</u>		Calcium <u>6</u>			
Bulktrk	No.	Driver <u>[Signature]</u>		Hulls			
Bulktrk <u>15</u>	No.	Driver <u>[Signature]</u>		Salt			
<b>JOB SERVICES &amp; REMARKS</b>				Flowseal			
Remarks:				Kol-Seal			
Rat Hole				Mud CLR 48			
Mouse Hole				CFL-117 or CD110 CAF 38			
Centralizers				Sand			
Baskets				Handling <u>159</u>			
D/V or Port Collar				Mileage			
<u>8 5/8 in bottom Est. Correlations</u>				<b>FLOAT EQUIPMENT</b>			
<u>Mix 150 8/20 3/11 2/10 2/10 2/10</u>				Guide Shoe			
<u>Cement Cementing</u>				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				Pumptrk Charge <u>Surface</u>			
				Mileage <u>44</u>			
				Tax			
				Discount			
				Total Charge			
X Signature <u>[Signature]</u>							





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114-8827

ATTN: Klee Watchous, Ryan

### **Butterfield #2**

### **11-14s-26w Gove,KS**

Start Date: 2017.06.29 @ 00:35:33

End Date: 2017.06.29 @ 07:26:27

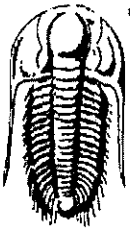
Job Ticket #: 63967                      DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.07.03 @ 10:51:16



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827

11-14s-26w Gove,KS

Butterfield #2

Job Ticket: 63967

DST#: 1

ATTN: Klee Watchous, Ryan

Test Start: 2017.06.29 @ 00:35:33

## GENERAL INFORMATION:

Formation: LKC "C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:58

Time Test Ended: 07:26:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: 3777.00 ft (KB) To 3805.00 ft (KB) (TVD)

Total Depth: 3805.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2476.00 ft (KB)

2471.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 428.44 psig @ 3778.00 ft (KB)

Start Date: 2017.06.29

End Date:

2017.06.29

Capacity: 8000.00 psig

Last Calib.: 2017.06.29

Start Time: 00:35:33

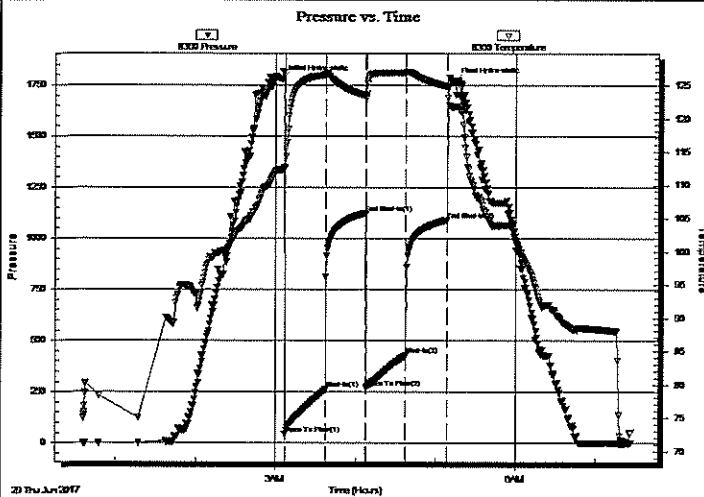
End Time:

07:26:27

Time On Btm: 2017.06.29 @ 03:04:13

Time Off Btm: 2017.06.29 @ 05:13:12

TEST COMMENT: 30-IFP-BOB in 6 min  
30-ISIP-no bl bk  
30-FFP-BOB in 15 min  
30-FSIP-no bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1780.37	112.32	Initial Hydro-static
3	43.35	112.50	Open To Flow (1)
34	263.61	126.57	Shut-In(1)
63	1124.33	123.36	End Shut-In(1)
63	271.38	123.04	Open To Flow (2)
93	428.44	126.91	Shut-In(2)
125	1091.08	124.82	End Shut-In(2)
129	1768.14	121.72	Final Hydro-static

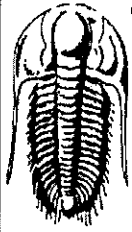
## Recovery

Length (ft)	Description	Volume (bbl)
685.00	Water	8.52
195.00	MW 30%M70%W	2.74

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827  
ATTN: Klee Watchous, Ryan

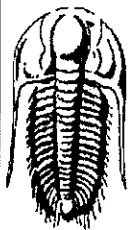
11-14s-26w Gove,KS  
Butterfield #2  
Job Ticket: 63967      DST#: 1  
Test Start: 2017.06.29 @ 00:35:33

### Tool Information

Drill Pipe:	Length: 3648.00 ft	Diameter: 3.80 inches	Volume: 51.17 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 51.76 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	3777.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	57.00 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			3749.00	
Shut In Tool	5.00			3754.00	
Hydraulic tool	5.00			3759.00	
Jars	5.00			3764.00	
Safety Joint	3.00			3767.00	
Packer	5.00			3772.00	29.00      Bottom Of Top Packer
Packer	5.00			3777.00	
Stubb	1.00			3778.00	
Recorder	0.00	8360	Inside	3778.00	
Recorder	0.00	6751	Outside	3778.00	
Perforations	24.00			3802.00	
Bullnose	3.00			3805.00	28.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>		<b>57.00</b>			



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827  
ATTN: Klee Watchous, Ryan

11-14s-26w Gove, KS  
Butterfield #2  
Job Ticket: 63967      DST#: 1  
Test Start: 2017.06.29 @ 00:35:33

## 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:	93000 ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.14 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	1.00 inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
685.00	Water	8.516
195.00	MW 30% M70% W	2.735

Total Length: 880.00 ft      Total Volume: 11.251 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .08@70F

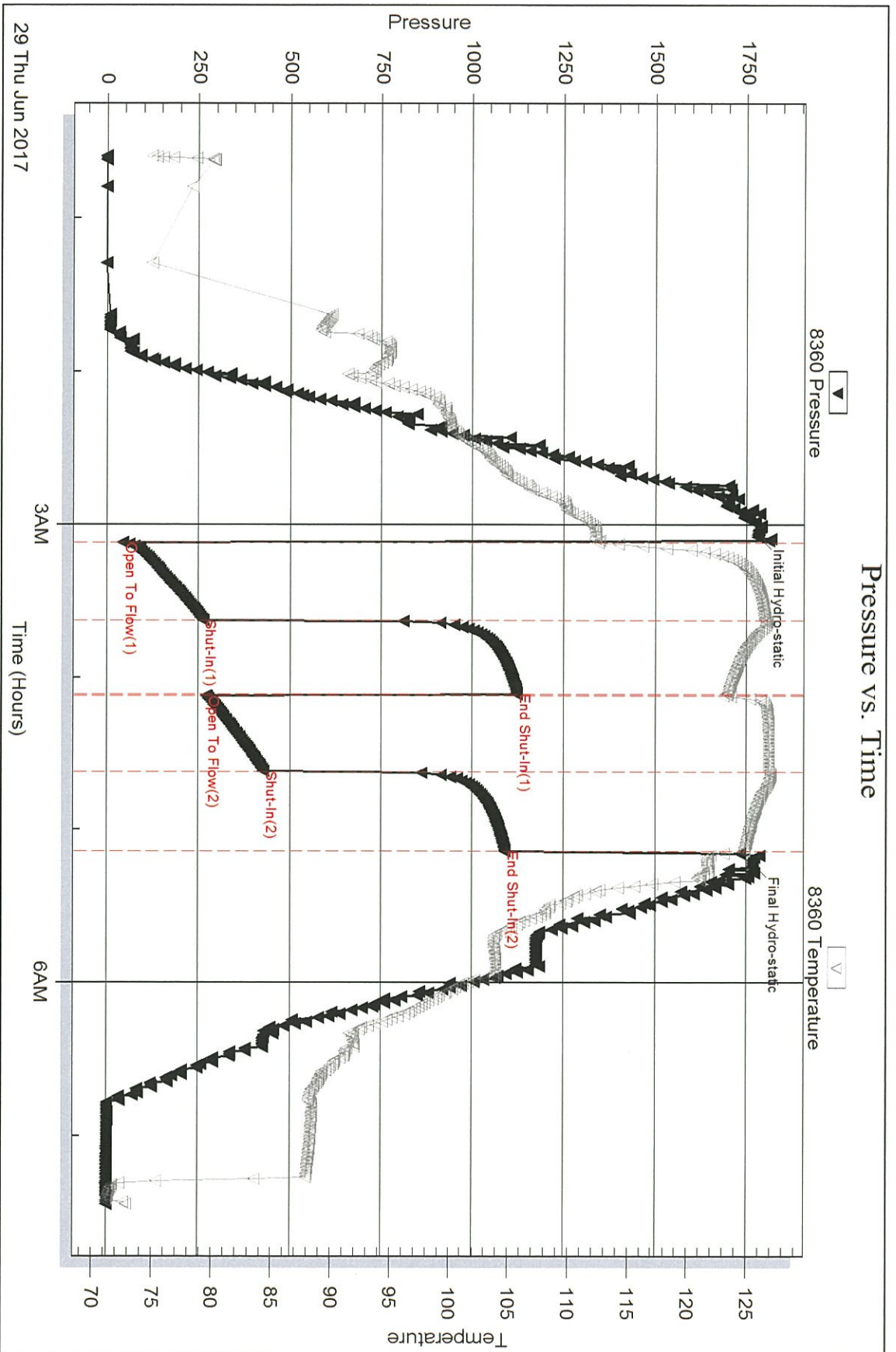
Serial #: 8360

Inside

Palorino Petroleum Inc

Butterfield #2

DST Test Number: 1



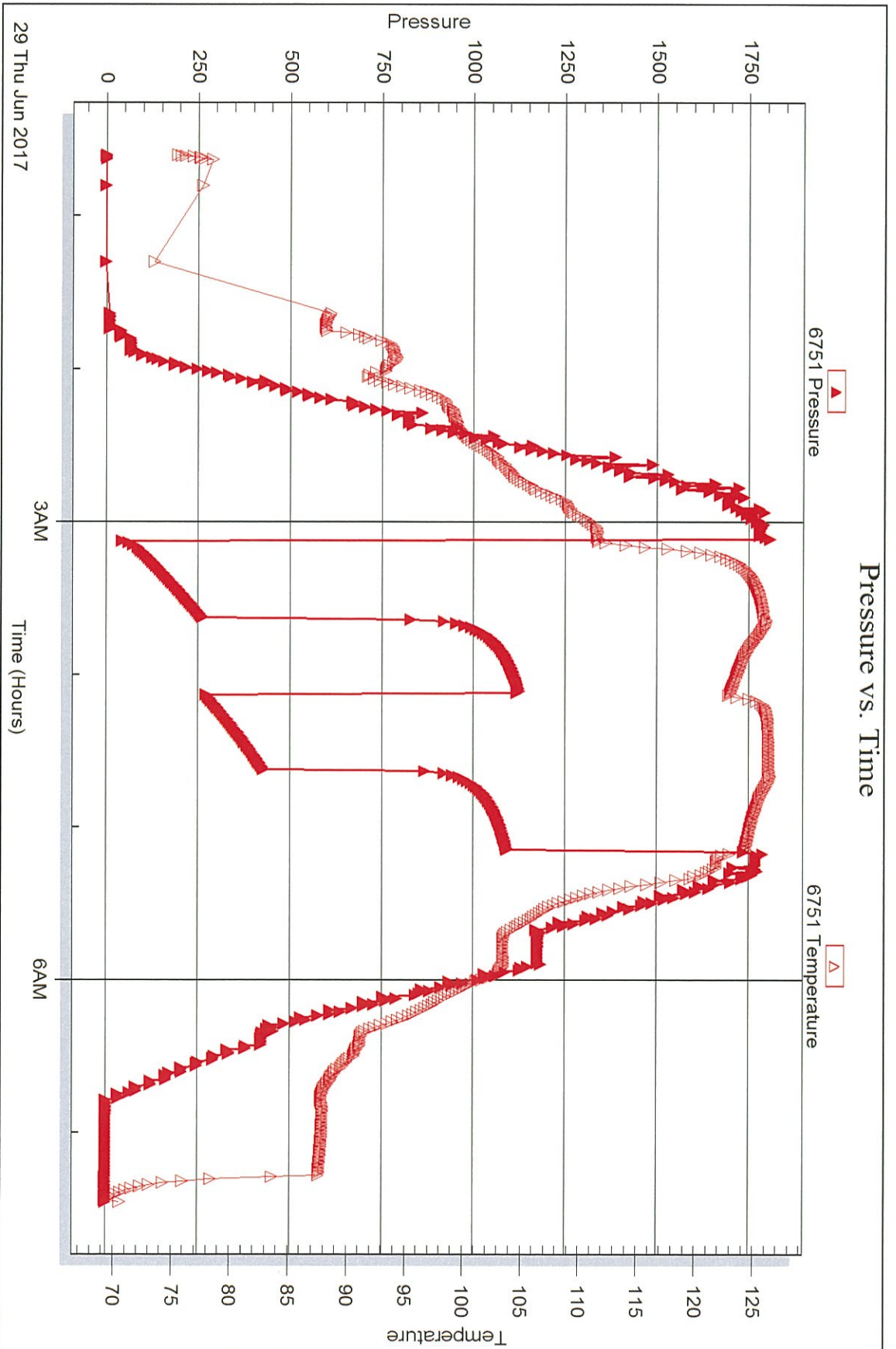
Serial #: 6751

Outside

Palorino Petroleum Inc

Butterfield #2

DST Test Number: 1

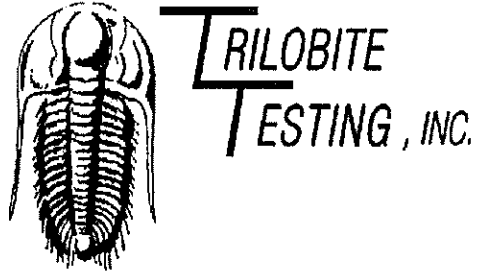


Triobite Testing, Inc

Ref. No: 63967

Printed: 2017.07.03 @ 10:51:16





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114-8827

ATTN: Klee Watchous, Ryan

### **Butterfield #2**

### **11-14s-26w Gove,KS**

Start Date: 2017.06.29 @ 20:15:20

End Date: 2017.06.30 @ 02:31:44

Job Ticket #: 63968                      DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

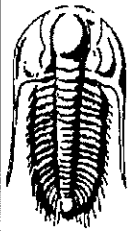
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.07.03 @ 10:50:48

Palomino Petroleum Inc 11-14s-26w Gove,KS Butterfield #2 DST # 2 LKC "H" 2017.06.29







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

11-14s-26w Gove, KS

4924 SE 84th St  
New ton KS 67114-8827

Butterfield #2

Job Ticket: 63968

DST#: 2

ATTN: Klee Watchous, Ryan

Test Start: 2017.06.29 @ 20:15:20

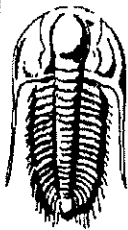
### Tool Information

Drill Pipe:	Length: 3774.00 ft	Diameter: 3.80 inches	Volume: 52.94 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3905.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	64.00 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			3877.00	
Shut In Tool	5.00			3882.00	
Hydraulic tool	5.00			3887.00	
Jars	5.00			3892.00	
Safety Joint	3.00			3895.00	
Packer	5.00			3900.00	29.00 Bottom Of Top Packer
Packer	5.00			3905.00	
Stubb	1.00			3906.00	
Recorder	0.00	8360	Inside	3906.00	
Recorder	0.00	6751	Outside	3906.00	
Perforations	31.00			3937.00	
Bullnose	3.00			3940.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827  
ATTN: Klee Watchous, Ryan

**11-14s-26w Gove,KS**  
**Butterfield #2**  
Job Ticket: 63968      **DST#: 2**  
Test Start: 2017.06.29 @ 20:15:20

### 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:	32000 ppm
Viscosity:	58.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	6.74 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4600.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	MWV 35%M65%W	0.492

Total Length: 100.00 ft      Total Volume: 0.492 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW .22@70F

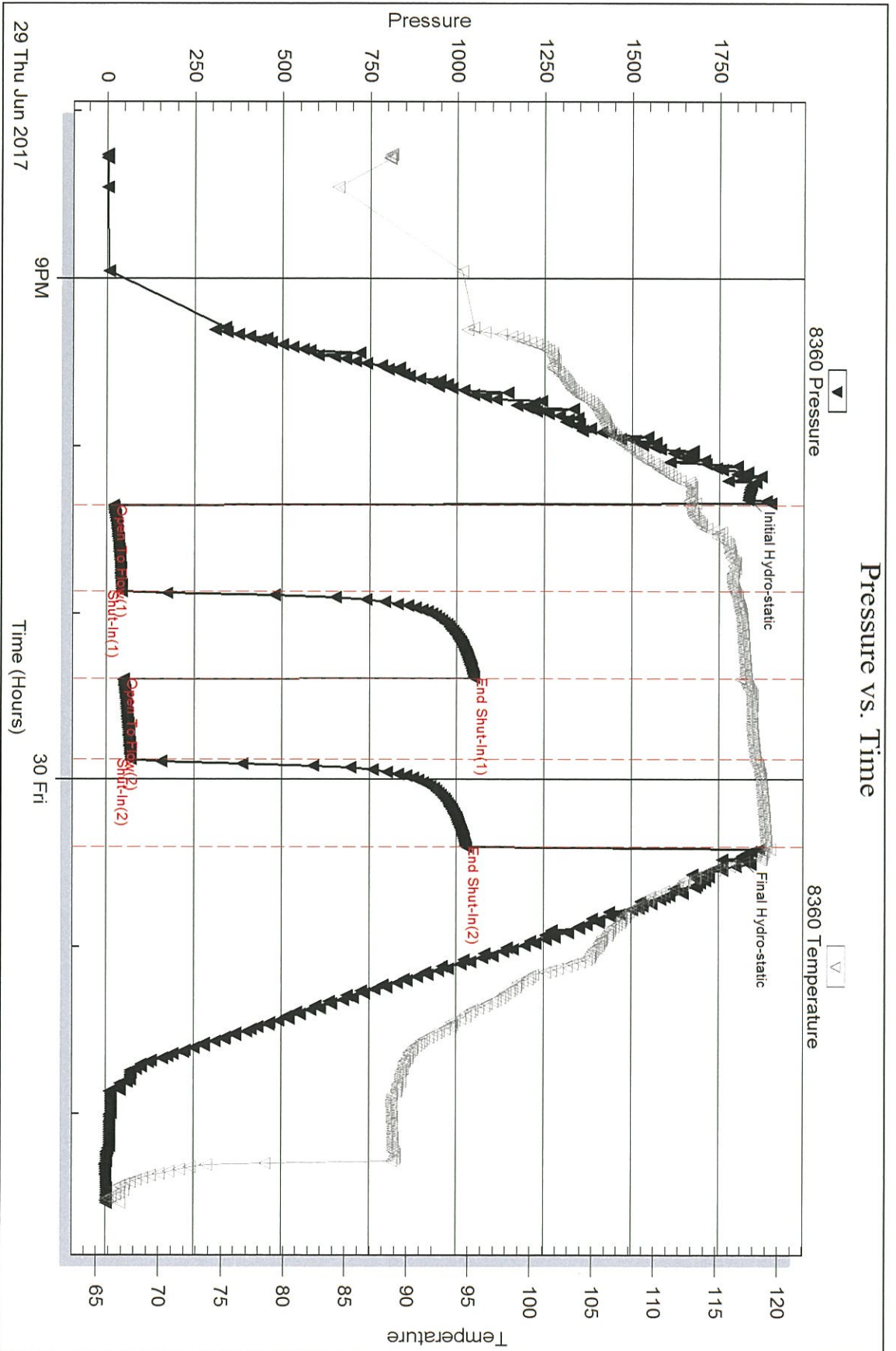
Serial #: 8360

Inside

Palorino Petroleum Inc

Butterfield #2

DST Test Number: 2



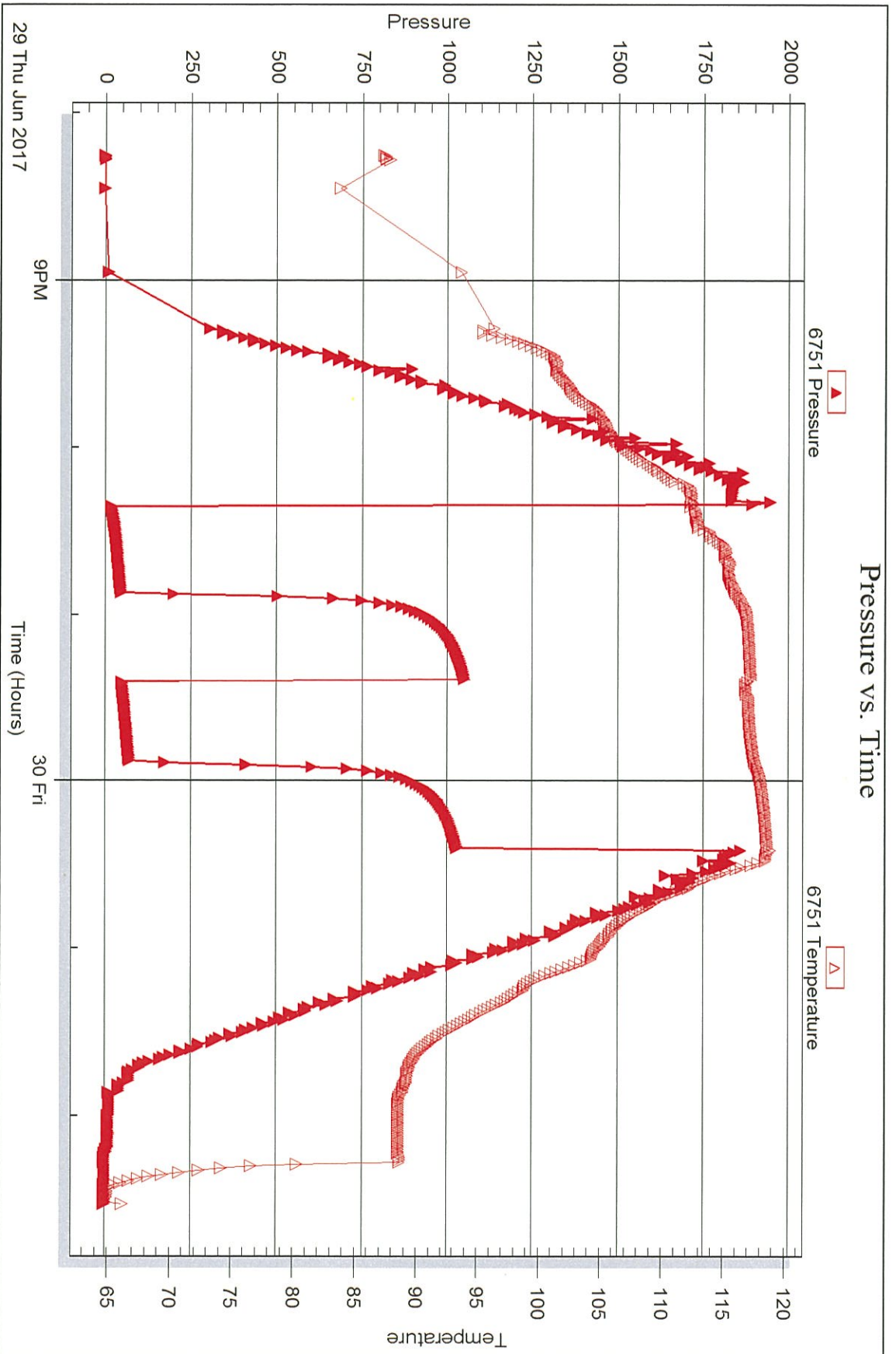
Serial #: 6751

Outside

Palomino Petroleum Inc

Butterfield #2

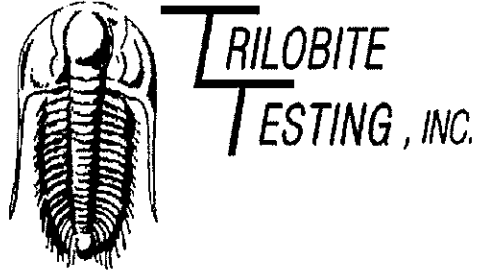
DST Test Number: 2



Triobble Testing, Inc

Ref. No: 63968

Printed: 2017.07.03 @ 10:50:49



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114-8827

ATTN: Klee Watchous, Ryan

### **Butterfield #2**

### **11-14s-26w Gove,KS**

Start Date: 2017.06.30 @ 10:50:22

End Date: 2017.06.30 @ 17:52:46

Job Ticket #: 63969                      DST #: 3

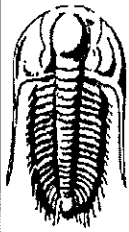
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.07.03 @ 10:50:26





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827

**11-14s-26w Gove,KS**

**Butterfield #2**

Job Ticket: 63969

DST#: 3

ATTN: Klee Watchous, Ryan

Test Start: 2017.06.30 @ 10:50:22

## GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:53:17

Time Test Ended: 17:52:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: **3937.00 ft (KB) To 3995.00 ft (KB) (TVD)**

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2476.00 ft (KB)

2471.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8360**

Inside

Press@RunDepth: 156.18 psig @ 3939.00 ft (KB)

Start Date: 2017.06.30

End Date:

2017.06.30

Start Time: 10:50:22

End Time:

17:52:46

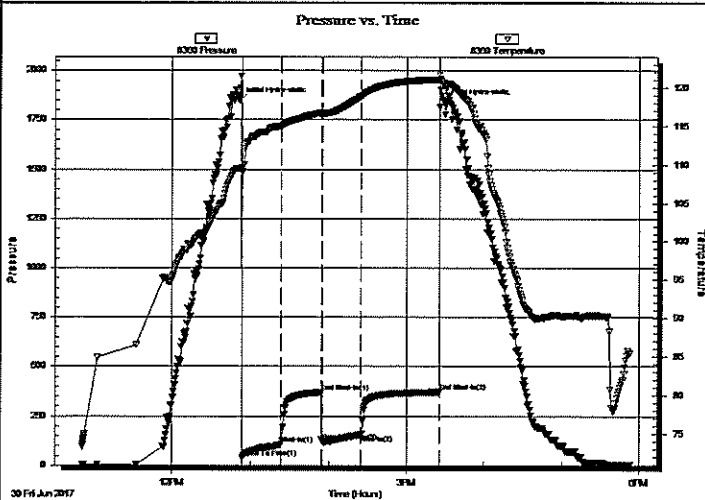
Capacity: 8000.00 psig

Last Calib.: 2017.06.30

Time On Btm: 2017.06.30 @ 12:51:02

Time Off Btm: 2017.06.30 @ 15:29:16

TEST COMMENT: 30-IFP-BOB in 7 min  
30-ISIP-surface bl bk in 20 min  
30-FFP-BOB in 12 min  
60-FSIP-5" bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.65	109.46	Initial Hydro-static
3	38.73	109.04	Open To Flow (1)
33	106.27	115.00	Shut-In(1)
64	369.24	116.71	End Shut-In(1)
64	119.62	116.64	Open To Flow (2)
94	156.18	118.85	Shut-In(2)
155	373.46	121.04	End Shut-In(2)
159	1833.96	120.55	Final Hydro-static

## Recovery

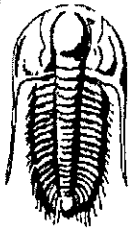
Length (ft)	Description	Volume (bbl)
186.00	GMO 30%G20%M50%O	1.52
206.00	CO	2.89
0.00	910' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827  
ATTN: Klee Watchous, Ryan

**11-14s-26w Gove,KS**  
**Butterfield #2**  
Job Ticket: 63969      **DST#: 3**  
Test Start: 2017.06.30 @ 10:50:22

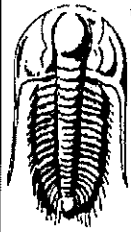
### Tool Information

Drill Pipe:	Length: 3805.00 ft	Diameter: 3.80 inches	Volume: 53.37 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3937.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 ft			
Tool Length:	87.00 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			3909.00	
Shut In Tool	5.00			3914.00	
Hydraulic tool	5.00			3919.00	
Jars	5.00			3924.00	
Safety Joint	3.00			3927.00	
Packer	5.00			3932.00	29.00      Bottom Of Top Packer
Packer	5.00			3937.00	
Stubb	1.00			3938.00	
Perforations	1.00			3939.00	
Recorder	0.00	8360	Inside	3939.00	
Recorder	0.00	6751	Outside	3939.00	
Blank Spacing	33.00			3972.00	
Perforations	20.00			3992.00	
Bullnose	3.00			3995.00	58.00      Bottom Packers & Anchor

**Total Tool Length: 87.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**11-14s-26w Gove,KS**

4924 SE 84th St  
New ton KS 67114-8827

**Butterfield #2**

Job Ticket: 63969

**DST#: 3**

ATTN: Klee Watchous, Ryan

Test Start: 2017.06.30 @ 10:50:22

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GMO 30%G20%M50%O	1.516
206.00	CO	2.890
0.00	910' GIP	0.000

Total Length: 392.00 ft

Total Volume: 4.406 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

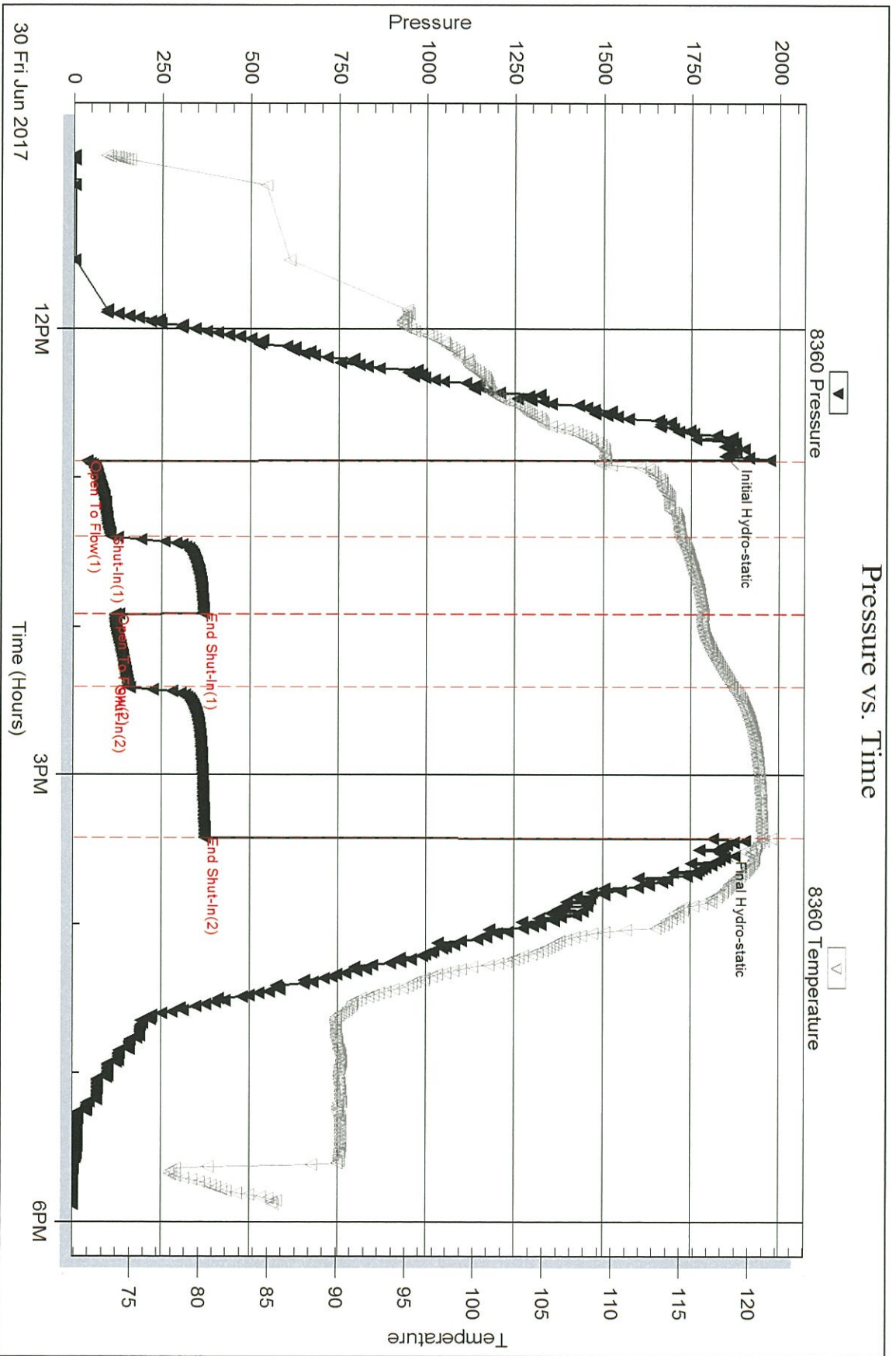
Serial #: 8360

Inside

Palomino Petroleum Inc

Butterfield #2

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63969

Printed: 2017.07.03 @ 10:50:27

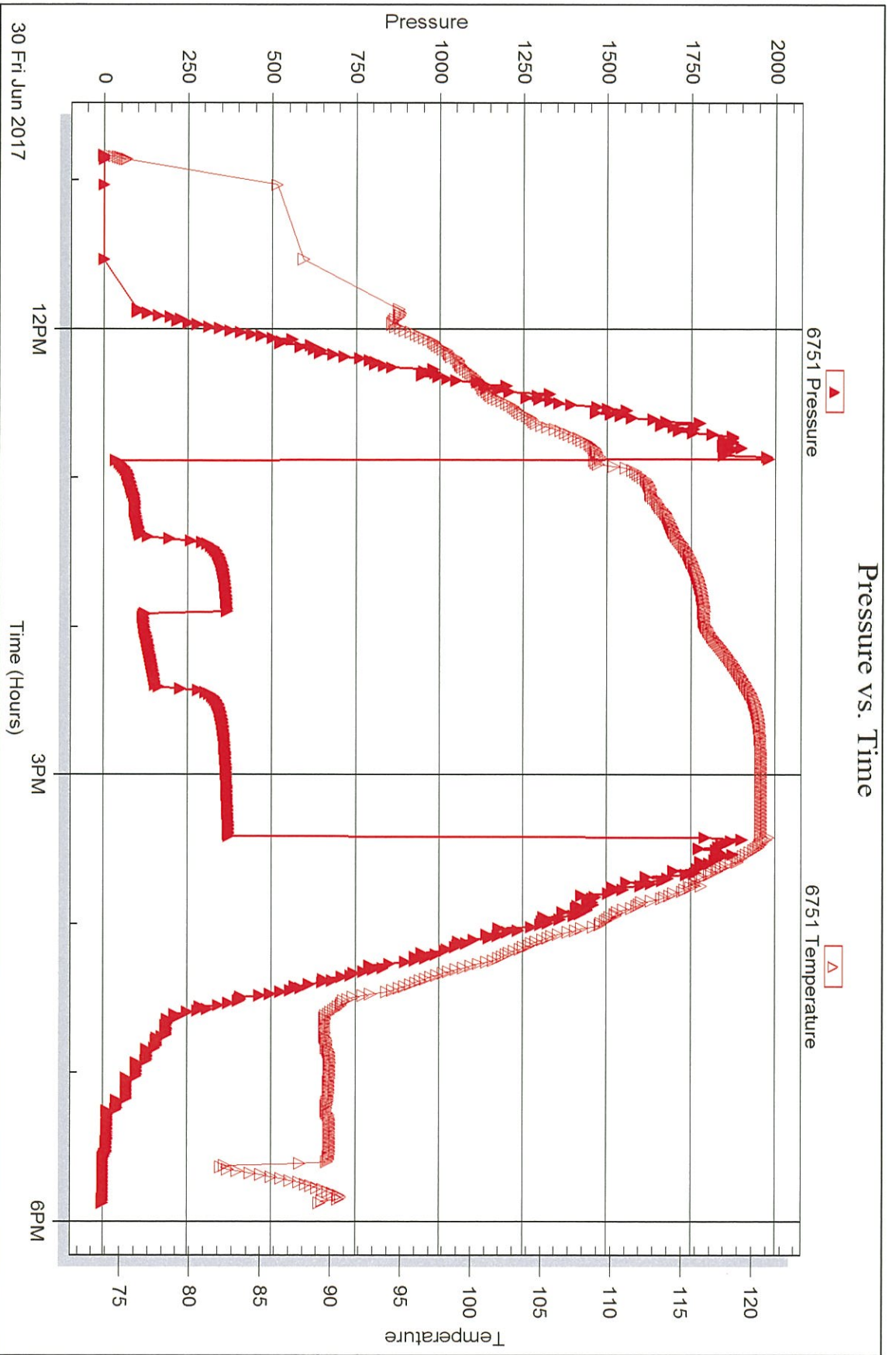
Serial #: 6751

Outside

Palomino Petroleum Inc

Butterfield #2

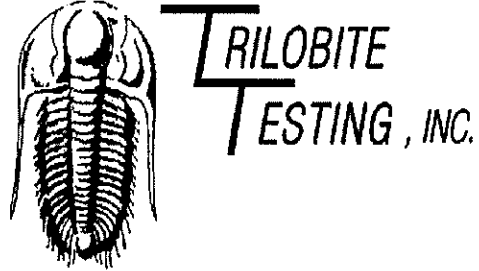
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 63969

Printed: 2017.07.03 @ 10:50:27



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114-8827

ATTN: Klee Watchous, Ryan

### **Butterfield #2**

### **11-14s-26w Gove,KS**

Start Date: 2017.07.01 @ 01:40:31

End Date: 2017.07.01 @ 07:41:25

Job Ticket #: 63970                      DST #: 4

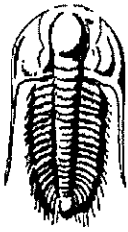
Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

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

Printed: 2017.07.03 @ 10:50:05

Palomino Petroleum Inc 11-14s-26w Gove,KS Butterfield #2 DST # 4 LKC "K" 2017.07.01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827

11-14s-26w Gove, KS

**Butterfield #2**

Job Ticket: 63970

DST#: 4

ATTN: Klee Watchous, Ryan

Test Start: 2017.07.01 @ 01:40:31

## GENERAL INFORMATION:

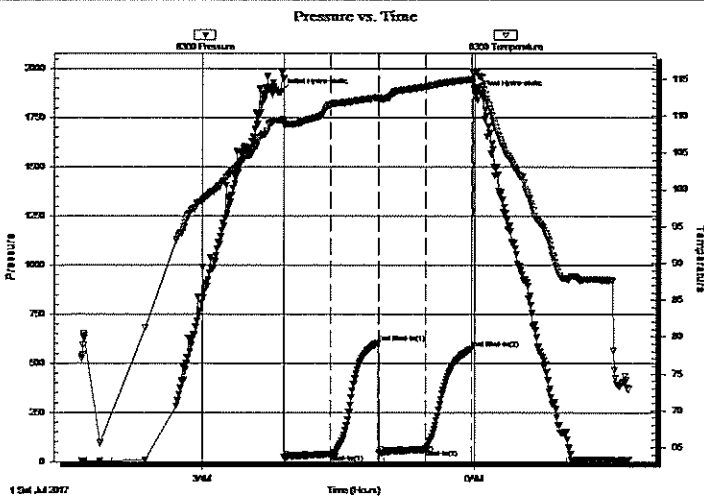
Formation: LKC "K"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 03:54:26  
Time Test Ended: 07:41:25  
Interval: 3988.00 ft (KB) To 4018.00 ft (KB) (TVD)  
Total Depth: 4018.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 2476.00 ft (KB)  
2471.00 ft (CF)  
KB to GR/CF: 5.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77

## Serial #: 8360

Inside

Press@RunDepth: 62.72 psig @ 3989.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2017.07.01 End Date: 2017.07.01 Last Calib.: 2017.07.01  
Start Time: 01:40:31 End Time: 07:41:25 Time On Btm: 2017.07.01 @ 03:52:11  
Time Off Btm: 2017.07.01 @ 06:00:55

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 4" bl  
30-ISIP-no bl bk  
30-FFP-w k bl thru-out 1/4" to 3" bl  
30-FSIP-no bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1879.77	109.33	Initial Hydro-static
3	20.42	108.77	Open To Flow (1)
33	38.93	111.54	Shut-In(1)
64	601.45	112.45	End Shut-In(1)
65	44.80	112.27	Open To Flow (2)
95	62.72	113.94	Shut-In(2)
126	573.03	114.92	End Shut-In(2)
129	1869.15	116.03	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
85.00	MGO 20%G35%M45%O	0.42
5.00	CO	0.02
0.00	215' GIP	0.00

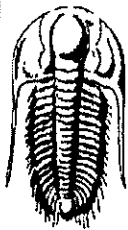
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827  
ATTN: Klee Watchous, Ryan

11-14s-26w Gove,KS  
Butterfield #2  
Job Ticket: 63970      DST#: 4  
Test Start: 2017.07.01 @ 01:40:31

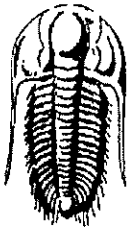
**Tool Information**

Drill Pipe:	Length: 3869.00 ft	Diameter: 3.80 inches	Volume: 54.27 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.86 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3988.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 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			3960.00	
Shut In Tool	5.00			3965.00	
Hydraulic tool	5.00			3970.00	
Jars	5.00			3975.00	
Safety Joint	3.00			3978.00	
Packer	5.00			3983.00	29.00      Bottom Of Top Packer
Packer	5.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8360	Inside	3989.00	
Recorder	0.00	6751	Outside	3989.00	
Perforations	26.00			4015.00	
Bullnose	3.00			4018.00	30.00      Bottom Packers & Anchor

**Total Tool Length: 59.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827

**11-14s-26w Gove,KS**

**Butterfield #2**

Job Ticket: 63970

**DST#: 4**

ATTN: Klee Watchous, Ryan

Test Start: 2017.07.01 @ 01:40:31

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 6.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	MGO 20%G35%M45%O	0.418
5.00	CO	0.025
0.00	215' GIP	0.000

Total Length: 90.00 ft      Total Volume: 0.443 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8360

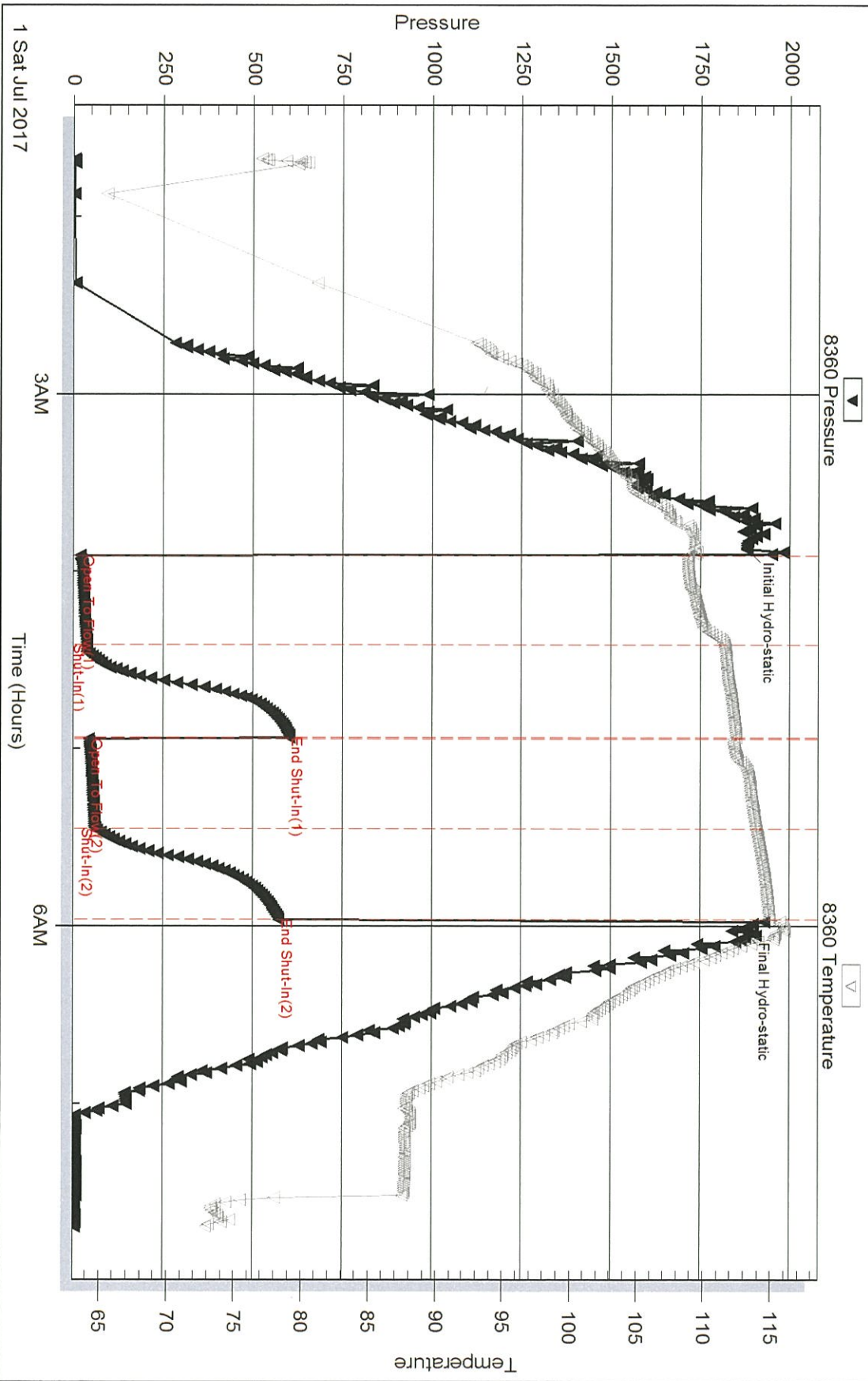
Inside

Palomino Petroleum Inc

Butterfield #2

DST Test Number: 4

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63970

Printed: 2017.07.03 @ 10:50:06

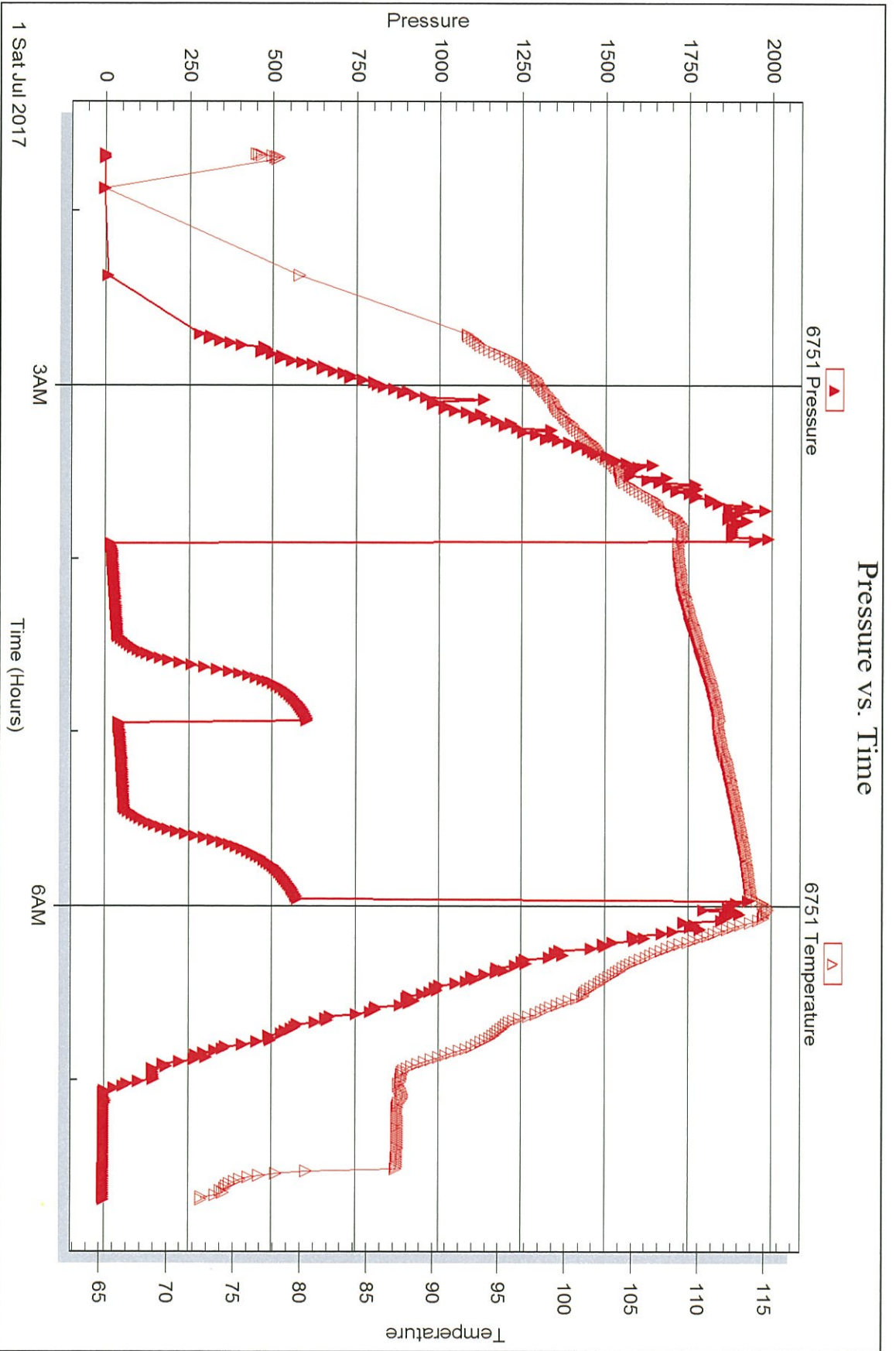
Serial #: 6751

Outside

Palomino Petroleum Inc

Butterfield #2

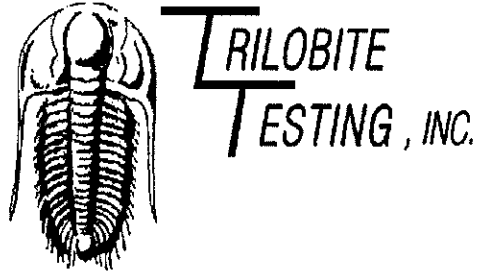
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 63970

Printed: 2017.07.03 @ 10:50:06



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton KS 67114-8827

ATTN: Klee Watchous, Ryan

### **Butterfield #2**

### **11-14s-26w Gove,KS**

Start Date: 2017.07.01 @ 15:20:50

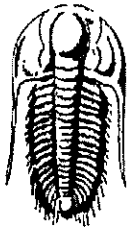
End Date: 2017.07.01 @ 20:45:59

Job Ticket #: 63971                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.07.03 @ 10:49:43

Palomino Petroleum Inc  
11-14s-26w Gove,KS  
Butterfield #2  
DST # 5  
LKC "L"  
2017.07.01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton KS 67114-8827

11-14s-26w Gove, KS

Butterfield #2

Job Ticket: 63971

DST#: 5

ATTN: Klee Watchous, Ryan

Test Start: 2017.07.01 @ 15:20:50

## GENERAL INFORMATION:

Formation: LKC "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:08:00

Time Test Ended: 20:45:59

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: 4011.00 ft (KB) To 4055.00 ft (KB) (TVD)

Total Depth: 4055.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2476.00 ft (KB)

2471.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8360

Inside

Press@RunDepth: 23.76 psig @ 4019.00 ft (KB)

Start Date: 2017.07.01

End Date:

2017.07.01

Start Time: 15:20:50

End Time:

20:45:59

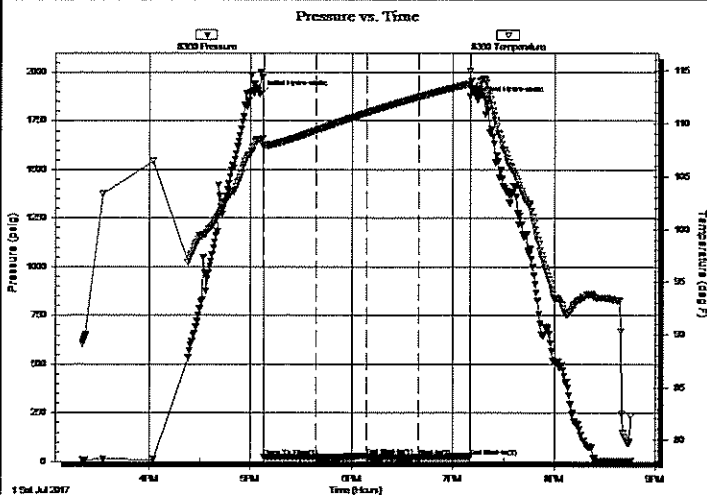
Capacity: 8000.00 psig

Last Calib.: 2017.07.01

Time On Btm: 2017.07.01 @ 17:06:00

Time Off Btm: 2017.07.01 @ 19:14:45

TEST COMMENT: 30-IFP-surface bl, died in 15 min  
30-ISIP-no bl  
30-FFP-no bl  
30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1884.65	108.42	Initial Hydro-static
2	21.82	107.73	Open To Flow (1)
33	22.69	109.31	Shut-In(1)
63	27.40	110.99	End Shut-In(1)
63	21.70	111.00	Open To Flow (2)
94	23.76	112.49	Shut-In(2)
124	26.06	113.77	End Shut-In(2)
129	1856.87	113.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud w/show of oil	0.00

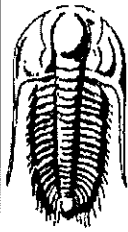
\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

11-14s-26w Gove, KS

4924 SE 84th St  
New ton KS 67114-8827

Butterfield #2

Job Ticket: 63971

DST#: 5

ATTN: Klee Watchous, Ryan

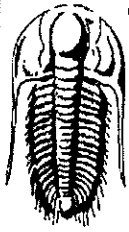
Test Start: 2017.07.01 @ 15:20:50

### Tool Information

Drill Pipe:	Length: 3870.00 ft	Diameter: 3.80 inches	Volume: 54.29 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 54.88 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4011.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	73.00 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			3983.00	
Shut In Tool	5.00			3988.00	
Hydraulic tool	5.00			3993.00	
Jars	5.00			3998.00	
Safety Joint	3.00			4001.00	
Packer	5.00			4006.00	29.00 Bottom Of Top Packer
Packer	5.00			4011.00	
Stubb	1.00			4012.00	
Perforations	7.00			4019.00	
Recorder	0.00	8360	Inside	4019.00	
Recorder	0.00	6751	Outside	4019.00	
Blank Spacing	33.00			4052.00	
Bullnose	3.00			4055.00	44.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>73.00</b>				



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

11-14s-26w Gove, KS

4924 SE 84th St  
New ton KS 67114-8827

Butterfield #2

Job Ticket: 63971

DST#: 5

ATTN: Klee Watchous, Ryan

Test Start: 2017.07.01 @ 15:20:50

### 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:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud w/show of oil	0.005

Total Length: 1.00 ft

Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

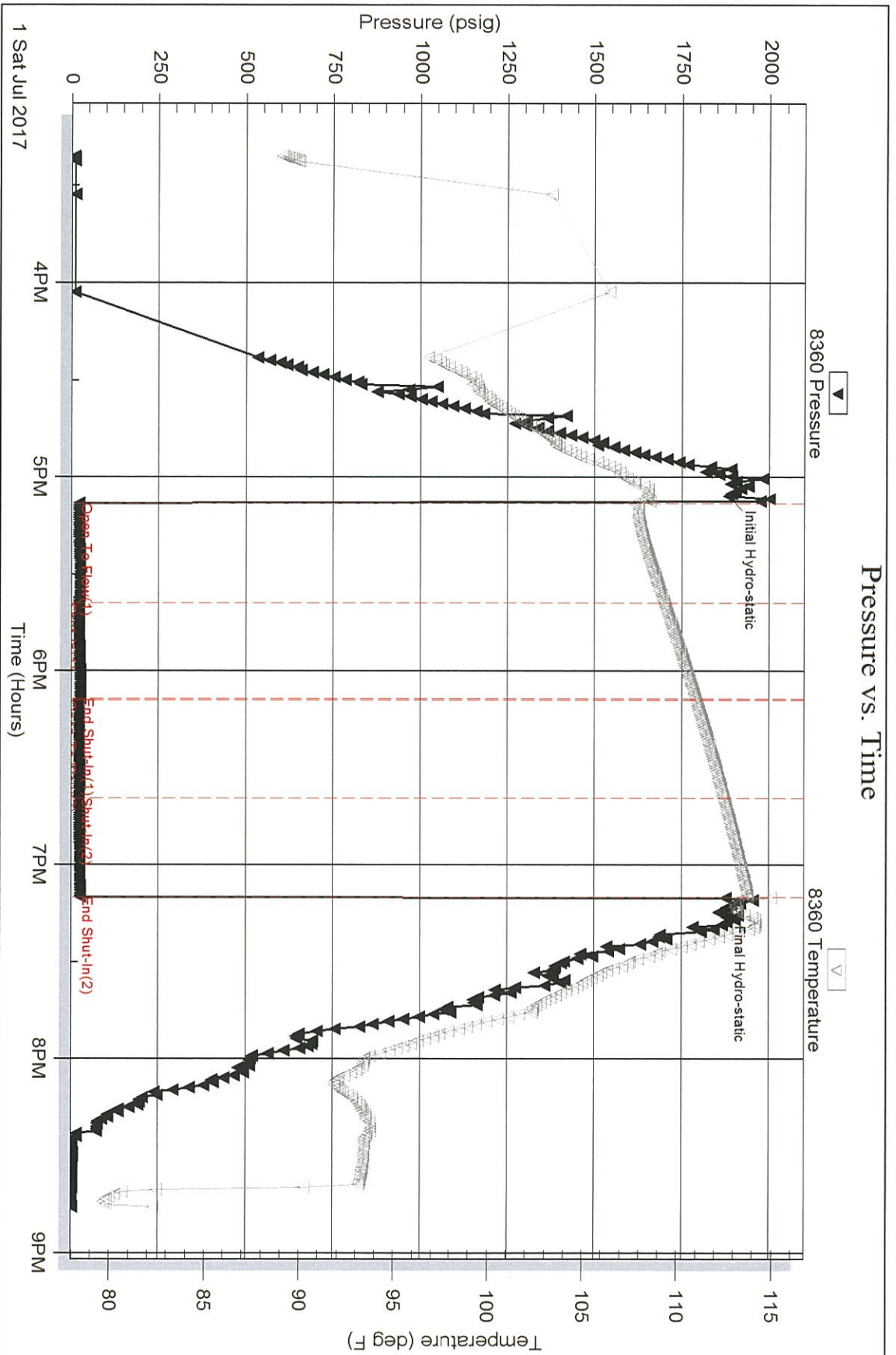
Serial #: 8360

Inside

Palomino Petroleum Inc

Butterfield #2

DST Test Number: 5



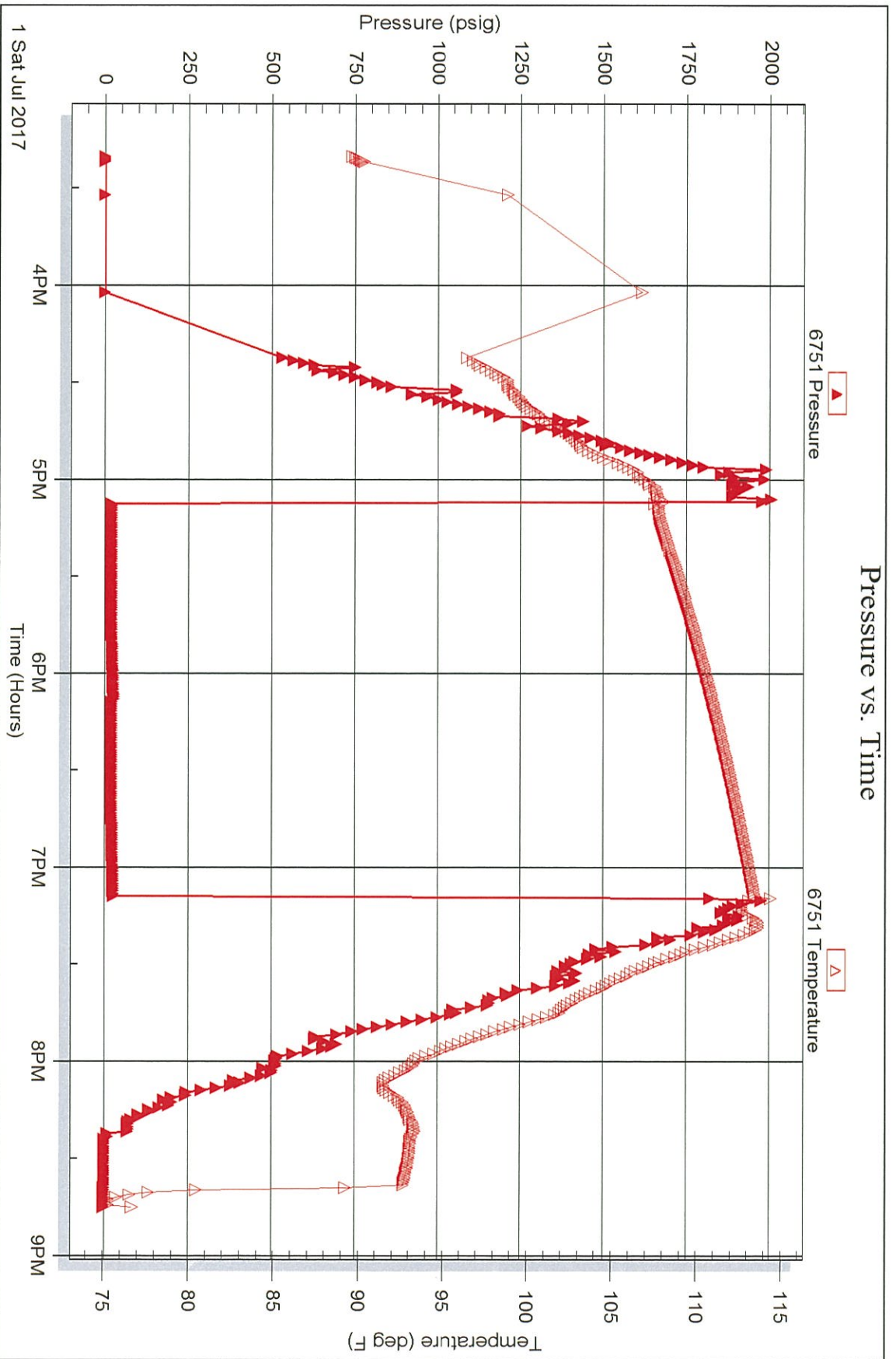
Serial #: 6751

Outside

Palomino Petroleum Inc

Butterfield #2

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 63971

Printed: 2017.07.03 @ 10:49:44



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63967

Well Name & No. BUTTERFIELD #2 Test No. 1 Date 6-29-17  
 Company PALOMINO Petroleum Inc Elevation 2476 KB 2471 GL  
 Address 4924 SE 84<sup>TH</sup> ST Newton, Ks 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig WW rig 8  
 Location: Sec. 11 Twp. 14<sup>S</sup> Rge. 26<sup>W</sup> Co. Gove State Ks

Interval Tested 3777-3805 Zone Tested LKC "C"  
 Anchor Length 28 Drill Pipe Run 3648 Mud Wt. 8.9  
 Top Packer Depth 3772 Drill Collars Run 120 Vis 52  
 Bottom Packer Depth 3777 Wt. Pipe Run - WL 6.2  
 Total Depth 3805 Chlorides 4000 ppm System LCM 2#

Blow Description IFP - BOB IN 6 min  
ISIP - NO BLOW BACK  
FFP - BOB IN 15 min  
FSIP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>195</u>	<u>Feet of MW</u>				
<u>685</u>	<u>Feet of WATER</u>		<u>70</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 880 BHT 124 Gravity - API RW 102 @ 70 °F Chlorides 43000 ppm

(A) Initial Hydrostatic 1780  Test 1050 T-On Location 2315  
 (B) First Initial Flow 43  Jars 250 T-Started 0035  
 (C) First Final Flow 263  Safety Joint 75 T-Open 0305  
 (D) Initial Shut-In 1124  Circ Sub T-Pulled 0505  
 (E) Second Initial Flow 271  Hourly Standby T-Out 0726  
 (F) Second Final Flow 428  Mileage 150 RT 136rt 102 Comments Motel stay  
 (G) Final Shut-In 1091  Sampler  Ruined Shale Packer  
 (H) Final Hydrostatic 1768  Straddle  Ruined Packer

Initial Open 30  Extra Packer  
 Initial Shut-In 30  Extra Recorder  
 Final Flow 30  Day Standby  
 Final Shut-In 30  Accessibility  
 Sub Total 1477

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you  
 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. 63968

Well Name & No. BUTTERFIELD #2 Test No. 2 Date 6-29-17  
 Company PALOMINO Petroleum Inc Elevation 2476 KB 2471 GL  
 Address 4924 SE 84<sup>TH</sup> ST Newton, Ks 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig WWRig 8  
 Location: Sec. 11 Twp. 14 Rge. 26 Co. Gove State Ks

Interval Tested 3905-3940 Zone Tested LKC "H"  
 Anchor Length 35 Drill Pipe Run 3774 Mud Wt. 8.9  
 Top Packer Depth 3900 Drill Collars Run 120 Vis 58  
 Bottom Packer Depth 3905 Wt. Pipe Run - WL 6.8  
 Total Depth 3940 Chlorides 4600 ppm System LCM 2#

Blow Description IFP - WEAK BLOW THRU-OUT 1/4" BLOW  
ISIP - NO BLOW  
FFP - SURFACE BLOW THRU-OUT  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>MW</u>			<u>65</u>	<u>35</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 100 BHT 119 Gravity - API RW .22 @ 70 °F Chlorides 32000 ppm

- (A) Initial Hydrostatic 1833
- (B) First Initial Flow 21
- (C) First Final Flow 44
- (D) Initial Shut-In 1049
- (E) Second Initial Flow 50
- (F) Second Final Flow 70
- (G) Final Shut-In 1027
- (H) Final Hydrostatic 1813

- Test 1050
- Jars 250
- Safety Joint 75
- Circ Sub
- Hourly Standby
- Mileage 102
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility

T-On Location 1920  
 T-Started 2015  
 T-Open 2225  
 T-Pulled 0025  
 T-Out 0231

Comments MOTEL STAY  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1477  
 MP/DST Disc't

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

Sub Total 1477  
 Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63969

Well Name & No. BUTTERFIELD #2 Test No. 3 Date 6-30-17  
 Company PALOMINO PETROLEUM INC Elevation 2476 KB 2471 GL  
 Address 4924 SE 84<sup>TH</sup> ST NEWTON, KS 67114-8827  
 Co. Rep / Geo. RYAN SEIB Rig W11198  
 Location: Sec. 11 Twp. 14<sup>S</sup> Rge. 26<sup>W</sup> Co. GOVE State KO

Interval Tested 3937-3995 Zone Tested LKP I-5  
 Anchor Length 58 Drill Pipe Run 3805 Mud Wt. 9  
 Top Packer Depth 3932 Drill Collars Run 120 Vis 55  
 Bottom Packer Depth 3937 Wt. Pipe Run - WL 6.4  
 Total Depth 3995 Chlorides 4500 ppm System LCM 2#

Blow Description JFP - BOB IN 7 min  
ISIP - SURFACE BLOW BACK IN 20 min  
FFP - BOB IN 12 min  
FSIP - 5" BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>910</u>	<u>GIP</u>				
<u>206</u>	<u>CD</u>				
<u>186</u>	<u>GMO</u>	<u>30</u>	<u>50</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 392 BHT 121 Gravity 36 API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic <u>1846</u>	<input checked="" type="checkbox"/> Test 1050	T-On Location <u>1010</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>1050</u>
(C) First Final Flow <u>106</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>1250</u>
(D) Initial Shut-In <u>369</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1520</u>
(E) Second Initial Flow <u>119</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1752</u>
(F) Second Final Flow <u>156</u>	<input checked="" type="checkbox"/> Mileage 102	Comments <u>MOTEL STAY</u>
(G) Final Shut-In <u>373</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>1833</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer

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

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1477

Sub Total 0  
 Total 1477  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative RAY SCHWACH Thank you

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63970

Well Name & No. BUTTERFIELD #2 Test No. 4 Date 7-1-17  
 Company PALOMINO Petroleum Inc Elevation 2476 KB 2471 GL  
 Address 4924 SE 84<sup>TH</sup> ST Newton Ks 67114-8827  
 Co. Rep / Geo. Ryan Seib Rig WW rig 8  
 Location: Sec. 11 Twp. 14<sup>S</sup> Rge. 26<sup>W</sup> Co. Gove State Ks

Interval Tested 3988-4018 Zone Tested LKC "K"  
 Anchor Length 30 Drill Pipe Run 3869 Mud Wt. 8.8  
 Top Packer Depth 3983 Drill Collars Run 120 Vis 50  
 Bottom Packer Depth 3988 Wt. Pipe Run — WL 6.4  
 Total Depth 4018 Chlorides 4500 ppm System LCM 2#

Blow Description I FP - WEAK TO FAIR BLOW 1/4" TO 4" BLOW  
TSIP - NO BLOW BACK  
FFP - WEAK BLOW THROUGHOUT 1/4" TO 3" BLOW  
FSIP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>215</u>	<u>GTP</u>				
<u>5</u>	<u>CO</u>				
<u>85</u>	<u>MGO</u>	<u>20</u>	<u>45</u>		<u>35</u>

Rec Total 90 BHT 115 Gravity — API RW — @ — ° F Chlorides — ppm

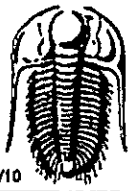
(A) Initial Hydrostatic 1879  Test 1150 T-On Location 0030  
 (B) First Initial Flow 20  Jars 250 T-Started 0140  
 (C) First Final Flow 38  Safety Joint 75 T-Open 0355  
 (D) Initial Shut-In 601  Circ Sub \_\_\_\_\_ T-Pulled 0555  
 (E) Second Initial Flow 44  Hourly Standby \_\_\_\_\_ T-Out 0741  
 (F) Second Final Flow 62  Mileage 102 Comments \_\_\_\_\_  
 (G) Final Shut-In 523  Sampler \_\_\_\_\_ Motel Stay  
 (H) Final Hydrostatic 1869  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1577  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1577

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER THANK YOU

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63971

Well Name & No. BUTTEFIELD #2 Test No. 5 Date 7-1-17  
 Company PALOMINO PETROLEUM INC Elevation 2476 KB 2471 GL  
 Address 4924 SE 84<sup>TH</sup> ST Newton, KS 67114-8827  
 Co. Rep / Geo. RYAN SCIB Rig WW RIG 8  
 Location: Sec. 11 Twp. 14<sup>S</sup> Rge. 26<sup>W</sup> Co. Gove State Ks

Interval Tested 4011-4055 Zone Tested LKC "L"  
 Anchor Length 44 Drill Pipe Run 3870 Mud Wt. 9.1  
 Top Packer Depth 4006 Drill Collars Run 120 Vis 53  
 Bottom Packer Depth 4011 Wt. Pipe Run - WL 6.8  
 Total Depth 4055 Chlorides 5200 ppm System LCM 2#

Blow Description IFP - SURFACE BLOW, died IN 15 MIN  
TSIP - NO BLOW  
FFP - NO BLOW  
FSTIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Mud</u>				
	<u>w/show fail</u>				

Rec Total 1 BHT 113 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1884</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1420</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1520</u>
(C) First Final Flow <u>22</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1705</u>
(D) Initial Shut-In <u>27</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1905</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2045</u>
(F) Second Final Flow <u>23</u>	<input checked="" type="checkbox"/> Mileage <u>102</u>	Comments <u>MOTEL Stay</u>
(G) Final Shut-In <u>26</u>	<input type="checkbox"/> Sampler	<u>Released 7-3-17 0000</u>
(H) Final Hydrostatic <u>1856</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby <u>?</u>	Total <u>1577</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1577</u>	

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

Approved By \_\_\_\_\_ Our Representative Ray Schwager *Thank you*

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