

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 Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BUTTERFIELD 1
Doc ID	1422449

All Electric Logs Run

Dual Induction
Dual Comp Porosity
Micro
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	BUTTERFIELD 1
Doc ID	1422449

Tops

Name	Top	Datum
Anhy.	1992	(+ 526)
Base Anhy.	2022	(+ 496)
Topeka	3488	(- 970)
Heebner	3762	(-1244)
Lansing	3800	(-1282)
Muncie Creek	3947	(-1429)
Stark	4030	(-1521)
BKC	4086	(-1568)
Marmaton	4124	(-1606)
Ft. Scott	4288	(-1770)
Miss.	4380	(-1862)
LTD	4504	(-1986)



## Summary of Changes

Lease Name and Number: BUTTERFIELD 1

API/Permit #: 15-063-22302-00-00

Doc ID: 1422449

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved Date	05/26/2017	09/20/2018
Geologist Report / Mud Logs?		No
Perf_acid1		1000 gal. 15% NE with 2% MS-1
Perf_perf1bottom		4022
Perf_perf1top		4016
Perf_shots1		4
PerforationsRevised		[[dataGrid]]
Producing Formation	Lansing Kansas City	LKC J
Production Interval #1		4016
Production Interval #3		4022

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
Tubing Set At	4453	4442

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1355738  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

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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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_





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



# Invoice

DATE	INVOICE #
2/23/2017	30212

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

RECEIVED

MAR 03 2017

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Butterfield	Gove	Express Well Serv...	Oil	Development	Cement Port Collar	Jason
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
105	Port Collar Tool Rental With Man				1	Each	275.00	275.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
276	Flocele				38	Lb(s)	2.25	85.50T
330	Swift Multi-Density Standard (MIDCON II)				150	Sacks	15.75	2,362.50T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				559	Ton Miles	0.75	419.25
	Subtotal							5,063.75
	Sales Tax Gove County						8.50%	238.60
<b>We Appreciate Your Business!</b>							<b>Total</b>	\$5,302.35



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



# Invoice

DATE	INVOICE #
2/23/2017	30212

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

**RECEIVED**

**MAR 03 2017**

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Butterfield	Gove	Express Well Serv...	Oil	Development	Cement Port Collar	Jason
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
105	Port Collar Tool Rental With Man				1	Each	275.00	275.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
276	Flocele				38	Lb(s)	2.25	85.50T
330	Swift Multi-Density Standard (MIDCON II)				150	Sacks	15.75	2,362.50T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				559	Ton Miles	0.75	419.25
	Subtotal							5,063.75
	Sales Tax Gove County						8.50%	238.60

**We Appreciate Your Business!**

**Total**

\$5,302.35



Services, Inc.

CHARGE TO: PALOMUD PETROLEUM

TICKET 30212

ADDRESS  
CITY, STATE, ZIP CODE

PAGE 1 OF

SERVICE LOCATIONS	WELL/PROJECT NO.	LEASE	COUNTY/PARISH	STATE	CITY	DATE	OWNER
1. <u>Ness City, KS</u>		<u>BUTTERFIELD #1</u>	<u>GOVE</u>	<u>KS</u>	<u>UTICA, KS.</u>	<u>23 FEB 17</u>	
TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	ORDER NO.		
<input type="checkbox"/> SALES	<u>EXPRESS</u>	<u>WELL SERV.</u>					
WELL TYPE	WELL CATEGORY	JOB PURPOSE	WELL PERMIT NO.	WELL LOCATION			
<u>DIL</u>	<u>DEVELOPMENT</u>	<u>Cement Port Dollar</u>		<u>N. To Castle Rock.</u>			
INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>575</u>					MILEAGE \$115	<u>50</u>	<u>mi</u>			<u>5.00</u>	<u>250.00</u>
<u>576D</u>					Pump Charge	<u>1.00</u>	<u>lb</u>			<u>1850.00</u>	<u>1850.00</u>
<u>105</u>					PORT COLLAR OPENING TOOL	<u>1.00</u>	<u>Kit</u>			<u>275.00</u>	<u>275.00</u>
<u>290</u>					D-AIR	<u>2.00</u>	<u>gals</u>			<u>42.00</u>	<u>84.00</u>
<u>276</u>					FLOCELE	<u>38</u>	<u>lbs</u>			<u>2.15</u>	<u>85.50</u>
<u>330</u>					SMD CEMENT	<u>150</u>	<u>SK</u>			<u>15.75</u>	<u>2362.50</u>
<u>581</u>					CEMENT SERVICE CHARGE	<u>225</u>	<u>SK</u>			<u>1.50</u>	<u>337.50</u>
<u>583</u>					DRYAGE	<u>22360</u>	<u>lbs</u>			<u>559.07</u>	<u>12500.00</u>

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: 23 FEB 17 TIME SIGNED: 1200  A.M.  P.M.

SWIFT OPERATOR: [Signature] APPROVAL: [Signature]

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

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
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	

PAGE TOTAL: 5063

TOTAL: 5312.35

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 23 FEB 17 PAGE NO.

CUSTOMER FALOMINO PETROLEUM WELL NO. LEASE BUTTERFIELD #1 JOB TYPE CEMENT PORT COLLAR TICKET NO. 30212

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION
								PORT COLLAR @ 1981
	1043							TEST - HELD
	1046							OPEN PORT COLLAR
	1051	4 1/2	83	✓		300		MIX 150SX SMD
		3	10 1/2	✓				DISPLACE CEMENT
								CIRCULATE 20SX TO PIT
	1113			✓		1000		CLOSE PORT COLLAR - TEST - HELD
								RUN 4 JTS.
	1124	4	25	✓				REVERSE CLEAN
	1135							WASH TRUCK
	1200							JOB COMPLETE.
								THANKS # 115
								WASON DAVE PRESTON



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



# Invoice

DATE	INVOICE #
2/16/2017	29948

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

**RECEIVED**

**FEB 21 2017**

- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#1	Butterfield	Gove	WW Drilling Rig ...	Oil	Development	Long String	David E.
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				40	Miles	5.00	200.00
578D-L	Pump Charge - Long String				1	Job	1,250.00	1,250.00
290	D-Air				3	Gallon(s)	42.00	126.00T
281	Mud Flush				500	Gallon(s)	1.25	625.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00T
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				10	Each	75.00	750.00T
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				87	Lb(s)	2.25	195.75T
581D	Service Charge Cement				225	Sacks	1.50	337.50
583D	Drayage				447	Ton Miles	0.75	335.25
	Subtotal							11,073.25
	Sales Tax Gove County						8.50%	760.79

**We Appreciate Your Business!**

**Total**

\$11,834.04



Services, Inc.

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

TICKET 29948

1. SERVICE LOCATIONS <u>Hays, KS</u>	WELL/PROJECT NO. #1	LEASE <u>Betterfield</u>	COUNTY/PARISH <u>Gove</u>	STATE <u>KS</u>	CITY	DATE <u>2-16-17</u>	OWNER
2. <u>Ness City, KS</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>W.D. Dylina</u>	RIG NAME/NO. <u>Rig #12</u>	SHIPPED VIA	DELIVERED TO <u>Location</u>	ORDER NO.	
3.	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>long string</u>		WELL PERMIT NO.	WELL LOCATION	
4. REPERAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE TRK # 113	40	mi			5.00	200.00
578					Pump Charge - long string	1	EA			1250.00	1250.00
290					D-Air	3	EA			42.00	126.00
281					Mudflush	500	GM			1.25	625.00
403					Leavid Kel	4	GM			25.00	100.00
404					Cement Basket	1	EA		5/2	250.00	250.00
406					Part Collar	1	EA			250.00	250.00
402					Latch Down Plug & Baffle	1	EA			225.00	225.00
409					Insert Flange Shoe w/ Autofil	1	EA			300.00	300.00
419					Turbolizer	10	EA			75.00	750.00
					Rotating Head Rental	1	EA			200.00	200.00

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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	PAGE TOTAL	P.2
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					6526	00
WE UNDERSTOOD AND MET YOUR NEEDS?					4547	25
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					11073	25
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					760	99
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			11834	04
TOTAL					11834	04

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

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

Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 29948

CUSTOMER  
Kalamining Petro

WH #1  
Butterfield #1

DATE 2-16-17 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE / PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	UM	QTY.	UM		
330		2				Swift Multi-Density	125	SKS			1575	1968.75
325		2				Standard Cement	100	SKS			12.25	1225.00
284		2				Gulsoad	5	SKS			30.00	150.00
283		2				Salt	550	LBS			20.00	110.00
285		2				AFR-1	50	LBS			4.50	225.00
76		2				Procele	87	LBS			2.25	195.75
SERVICE CHARGE CMT MILEAGE CHANGE 28537 TOTAL WEIGHTS 48 LOADED MILES 48 CUBIC FEET 225 SKS TON MILES 447 1.50 75 337.50 335.25												

CONTINUATION TOTAL 4547.25

**JOB LOG**

**SWIFT Services, Inc.**

DATE 2-16-17 PAGE NO.

CUSTOMER Petroleum

WELL NO. #1

LEASE Butterfield

JOB TYPE Long String

TICKET NO. 29948

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							On location 5 1/2 x 14# RTD-4505 pipe - 4507.41 shoe - 43.38 Centralizers - 1,3,5,7,9,11,12,13,15,58 Basket - 59 Port collar - 59 @ 1981
	2000							Start running csg
	2220							Break circ on Bottom
	2315	4.5	12			400		pump mud flush - 500 gal
	2320	4.5	20			400		pump Kel spacer
	2325	2.5	8			0		plug Rat Hole - 30 sks cmt
	2330	6.5	36			300		pump SMD CMT @ 12.5 ppg - 95 sks
		5	24			200		pump EA-2 cmt @ 15.5 ppg - 100 sks
								Drop plug
	2355	7.5	0			0		Start Disp
		7.5	82			400		Catch psi
		1.5	95			250		- wait on WATER
		5	100			700		Increase Rate
	0015	5	109			800		land plug - lift psi - 800 Land psi - 1500
	0020							Release psi - Dry
								JOB Complete
								Thanks David, Jon, & Isaac





**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

**RECEIVED**  
**FEB 13 2017**

Date: 2/8/2017  
 Invoice # 7334  
 P.O.#:  
 Due Date: 3/10/2017  
 Division: *Russell*

# Invoice

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

4924 SE 84th  
 Newton Ks 67114

**Reference:**  
 BUTTERFIELD 1 SEC 11-14-26

**Description of Work:**  
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 479.24	No				
Common-Class A	120	\$ 1,284.00	Yes				
Calcium Chloride	6	\$ 216.58	Yes				
POZ Mix-Standard	30	\$ 135.36	Yes				
Pump Truck Mileage-Job to Nearest Camp	48	\$ 139.23	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	48	\$ 108.29	No				
Bulk Truck Matl-Material Service Charge	159	\$ 102.49	No				
Premium Gel (Bentonite)	3	\$ 56.08	Yes				

**Invoice Terms:**

Net 30

SubTotal: \$ 2,521.27  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (63.03)

SubTotal for Taxable Items:	\$ 1,649.72
SubTotal for Non-Taxable Items:	\$ 808.52
<b>Total:</b>	<b>\$ 2,458.24</b>
<b>Tax:</b>	<b>\$ 140.23</b>

8.50% Gove County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 2,598.47**  
**Applied Payments:**  
**Balance Due: \$ 2,598.47**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

# QUALITY OILWELL CEMENTING, INC.

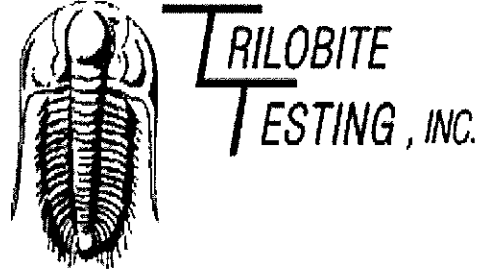
Federal Tax I.D.# 20-2886107

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

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

No. 7334

Date	2-7-17	Sec.	11	Twp.	14	Range	26	County	Coove	State	KS	On Location		Finish	4:15 p.m.		
Lease								Well No. 1		Owner							
Contractor								W.W. #12		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								Surface		Charge To							
Hole Size								12 1/4		T.D.		217				Palomino Petroleum	
Csg.								8 5/8		Depth		217				Street	
Tbg. Size										Depth						City State	
Tool										Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								10		Shoe Joint		Cement Amount Ordered					
Meas Line								Displace		13 BCL				150 8 5/8 20 3 1/2 2 1/2 CBL			
<b>EQUIPMENT</b>																	
Pumptrk		No.		Cement		Helper		Craig		Common		120					
Bulktrk		No.		Driver		Brett				Poz. Mix		30					
Bulktrk		No.		Driver		DICK				Gel.		3					
Bulktrk		No.		Driver						Calcium		6					
<b>JOB SERVICES &amp; REMARKS</b>																	
Remarks:								Hulls									
Rat Hole								Salt									
Mouse Hole								Flowseal									
Centralizers								Kol-Seal									
Baskets								Mud CLR 48									
D/V or Port Collar								CFL-117 or CD110 CAF 38									
8 5/8 on bottom. Est. Circulation -								Sand									
Mix 150 SCL + Displace								Handling									
Cement + Circulated!								159									
								Mileage									
								<b>FLOAT EQUIPMENT</b>									
								Guide Shoe									
								Centralizer									
								Baskets									
								AFU Inserts									
								Float Shoe									
								Latch Down									
								Pumptrk Charge									
								Surface									
								Mileage									
								48									
X Signature <i>[Signature]</i>								Tax									
								Discount									
								Total Charge									



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

### **Butterfield #1**

### **S11-14S-26W Gove,KS**

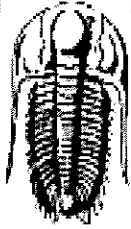
Start Date: 2017.02.11 @ 17:38:59

End Date: 2017.02.11 @ 23:51:29

Job Ticket #: 65659                      DST #: 1

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

Printed: 2017.02.16 @ 10:34:12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65659

DST#: 1

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.11 @ 17:38:59

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:29

Time Test Ended: 23:51:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3818.00 ft (KB) To 3838.00 ft (KB) (TVD)

Reference Elevations: 2518.00 ft (KB)

Total Depth: 3838.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166**

Outside

Press@RunDepth: 90.27 psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.11

End Date:

2017.02.11

Last Calib.:

2017.02.11

Start Time: 17:39:04

End Time:

23:51:28

Time On Btm: 2017.02.11 @ 19:40:29

Time Off Btm: 2017.02.11 @ 21:43:59

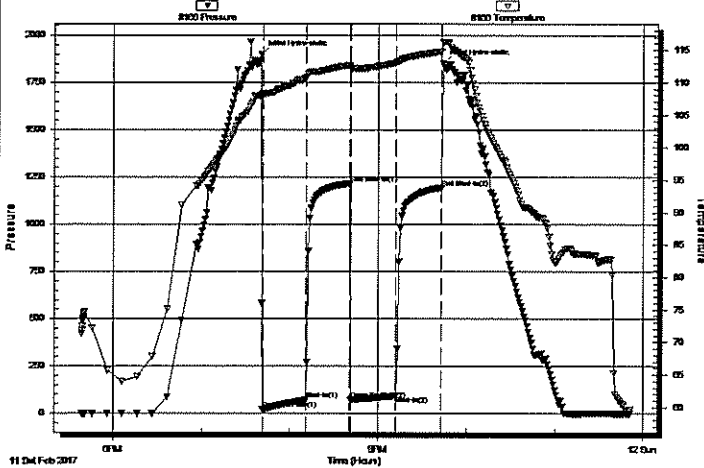
TEST COMMENT: IF: 1/4" blow built to 1 1/2".

IS: No return.

FF: Surface blow built to 1"

FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

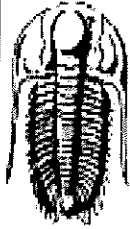
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.00	108.10	Initial Hydro-static
1	19.53	108.23	Open To Flow (1)
31	69.49	110.70	Shut-In(1)
61	1215.92	112.57	End Shut-In(1)
61	71.50	112.13	Open To Flow (2)
92	90.27	113.00	Shut-In(2)
123	1195.52	114.77	End Shut-In(2)
124	1854.00	116.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
152.00	mcw 60%w 40%m	1.03

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65659

**DST#: 1**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.11 @ 17:38:59

### GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:41:29

Time Test Ended: 23:51:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 3818.00 ft (KB) To 3838.00 ft (KB) (TVD)

Reference Elevations: 2518.00 ft (KB)

Total Depth: 3838.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8875** Inside

Press@RunDepth: psig @ 3819.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.11

End Date:

2017.02.11

Last Calib.:

2017.02.11

Start Time: 17:38:49

End Time:

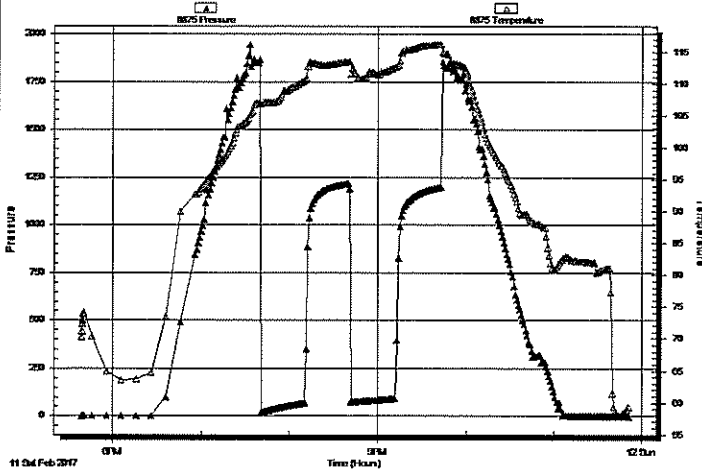
23:50:43

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 1 1/2".  
IS: No return.  
FF: Surface blow built to 1"  
FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
152.00	mcw 60%w 40%m	1.03

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
Newton, KS 67114

**Butterfield #1**

Job Ticket: 65659

DST#: 1

ATTN: Pat Deenihan/ Nick G

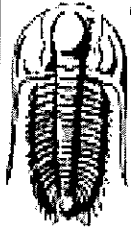
Test Start: 2017.02.11 @ 17:38:59

### Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 52.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3818.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			3792.00	
Shut In Tool	5.00			3797.00	
Hydraulic tool	5.00			3802.00	
Jars	5.00			3807.00	
Safety Joint	2.00			3809.00	
Packer	5.00			3814.00	27.00 Bottom Of Top Packer
Packer	4.00			3818.00	
Stubb	1.00			3819.00	
Recorder	0.00	8875	Inside	3819.00	
Recorder	0.00	8166	Outside	3819.00	
Perforations	14.00			3833.00	
Bullnose	5.00			3838.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65659

DST#: 1

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.11 @ 17:38:59

**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:

46000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
152.00	mcw 60%w 40%m	1.030

Total Length: 152.00 ft      Total Volume: 1.030 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

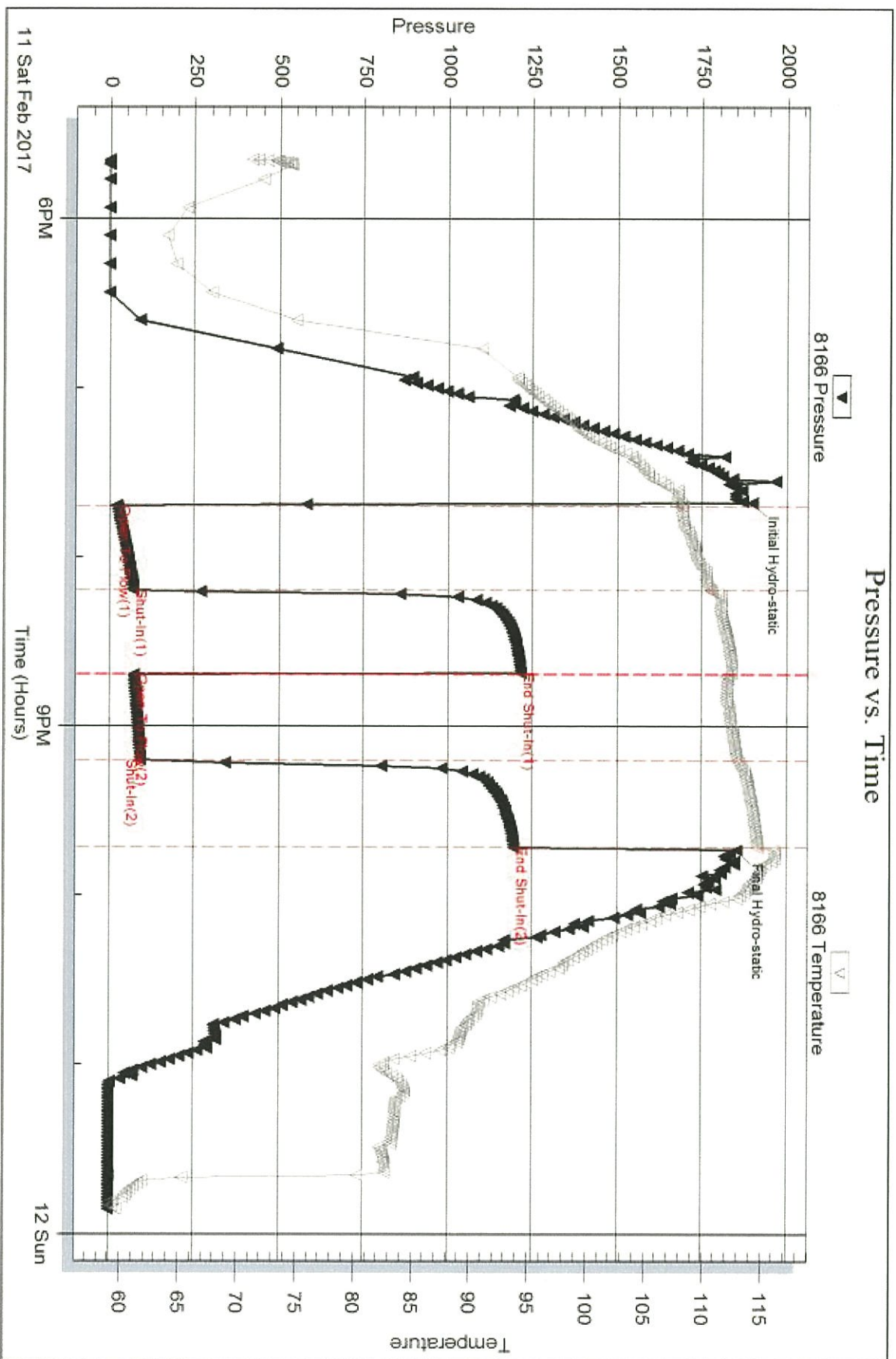
Recovery Comments: .23@50=46000

Serial #: 8166

Outside Palomino Petroleum Inc

Butterfield #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65659

Printed: 2017.02.16 @ 10:34:13



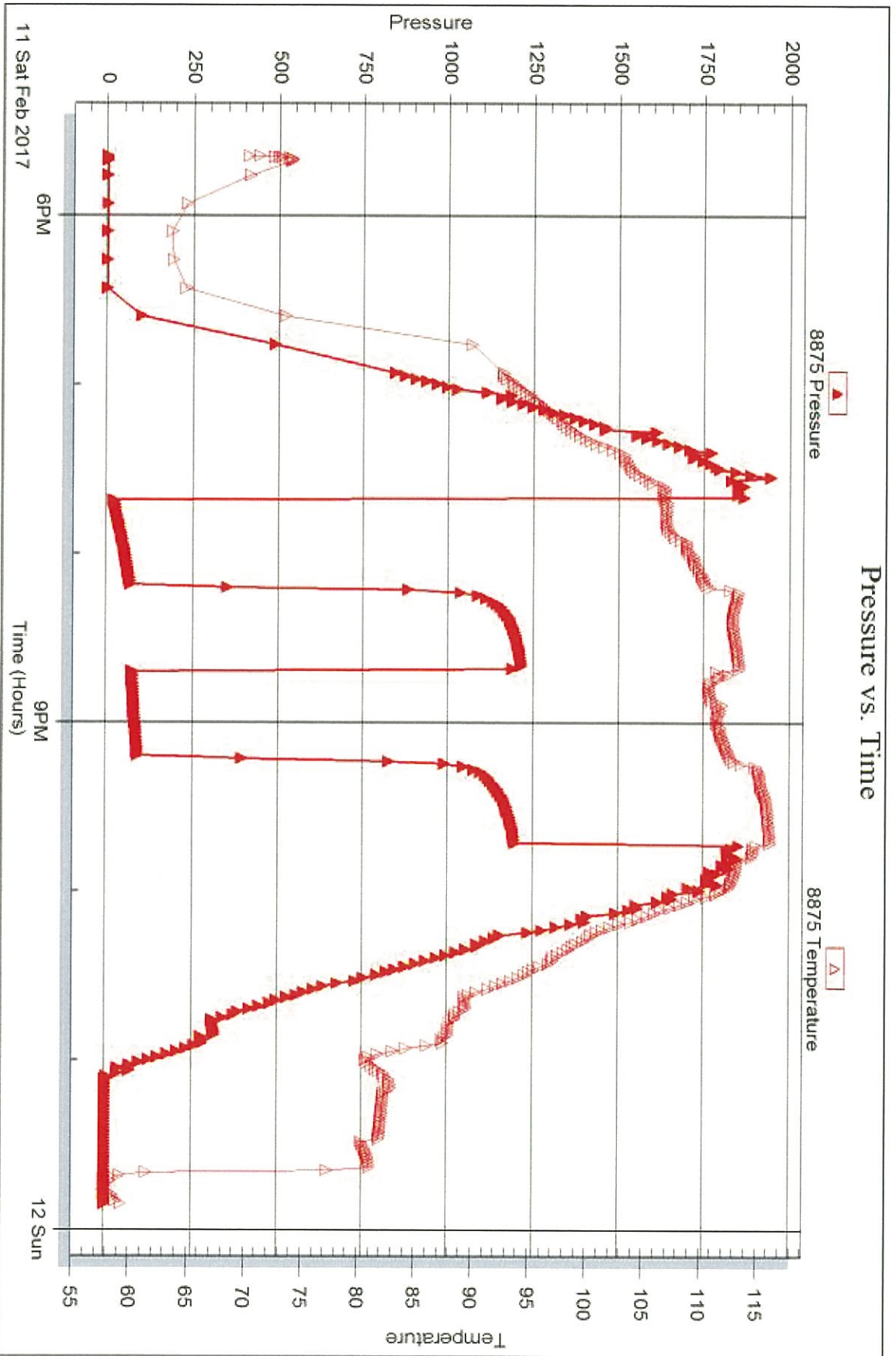
Serial #: 8875

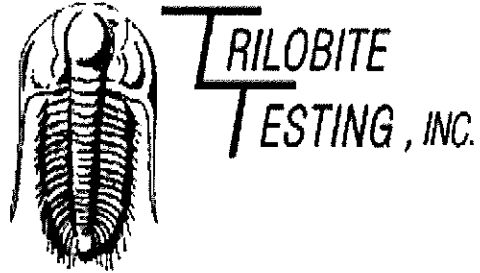
Inside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

### **Butterfield #1**

### **S11-14S-26W Gove,KS**

Start Date: 2017.02.12 @ 13:00:54

End Date: 2017.02.12 @ 18:55:54

Job Ticket #: 65660                      DST #: 2

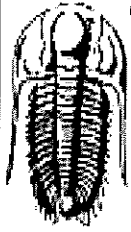
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:33:51

Palomino Petroleum Inc  
S11-14S-26W Gove,KS  
Butterfield #1  
DST # 2  
LKC H  
2017.02.12



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
Newton, KS 67114

**Butterfield #1**

Job Ticket: 65660

DST#: 2

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.12 @ 13:00:54

## GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:21:54

Time Test Ended: 18:55:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **3943.00 ft (KB) To 3980.00 ft (KB) (TVD)**

Reference Elevations: 2518.00 ft (KB)

Total Depth: 3980.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166**

Outside

Press@RunDepth: 220.66 psig @ 3944.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.12 End Date: 2017.02.12

Last Calib.: 2017.02.12

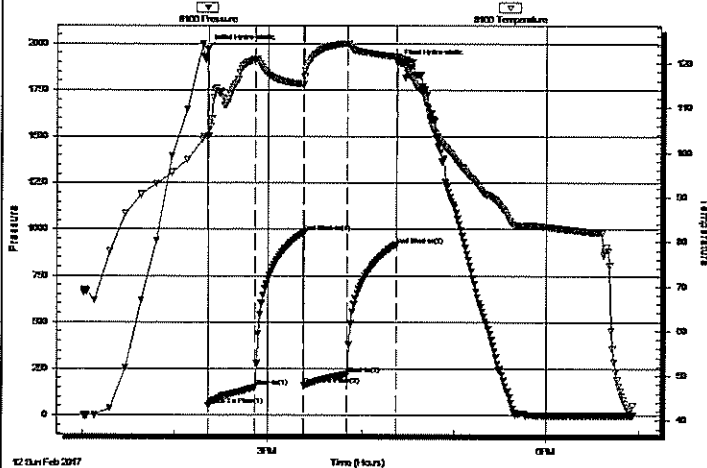
Start Time: 13:00:59 End Time: 18:55:53

Time On Btm: 2017.02.12 @ 14:21:24

Time Off Btm: 2017.02.12 @ 16:22:54

TEST COMMENT: IF: BOB in 6 min.  
IS: No return.  
FF: BOB in 14 min.  
FS: No return.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.72	103.58	Initial Hydro-static
1	53.71	103.75	Open To Flow (1)
31	149.44	120.92	Shut-In(1)
61	980.04	115.19	End Shut-In(1)
62	159.62	117.03	Open To Flow (2)
90	220.66	124.36	Shut-In(2)
121	915.84	121.45	End Shut-In(2)
122	1893.93	121.42	Final Hydro-static

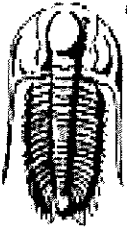
## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.64
124.00	ocmw 10%o 70%w 20%m	1.74
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	go 10%g 90%o	0.28
0.00	102 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 Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65660      DST#: 2

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.12 @ 13:00:54

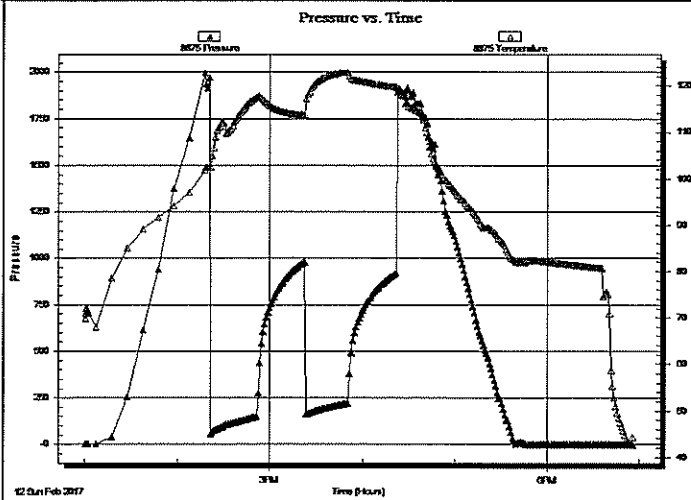
## GENERAL INFORMATION:

Formation: **LKC H**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 14:21:54  
Time Test Ended: 18:55:54  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Brandon Turley  
Unit No: 79  
Interval: **3943.00 ft (KB) To 3980.00 ft (KB) (TVD)**  
Reference Elevations: 2518.00 ft (KB)  
Total Depth: 3980.00 ft (KB) (TVD)      2510.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

### Serial #: 8875      Inside

Press@RunDepth:              psig @      3944.00 ft (KB)      Capacity:                      8000.00 psig  
Start Date:                      2017.02.12      End Date:                      2017.02.12      Last Calib.:                      2017.02.12  
Start Time:                      13:00:44      End Time:                      18:55:38      Time On Btm:                      Time Off Btm:

TEST COMMENT: IF: BOB in 6 min.  
IS: No return.  
FF: BOB in 14 min.  
FS: No return.



## PRESSURE SUMMARY

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

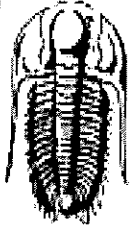
## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 90%w 10%m	0.64
124.00	ocnw 10%o 70%w 20%m	1.74
186.00	gocw m 5%g 5%o 20%w 70%m	2.61
20.00	go 10%g 90%o	0.28
0.00	102 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

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65660

**DST#: 2**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.12 @ 13:00:54

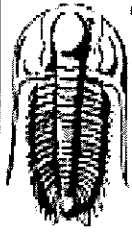
## Tool Information

Drill Pipe:	Length: 3825.00 ft	Diameter: 3.80 inches	Volume: 53.65 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: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 54.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3943.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	37.00 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
Stubb	1.00			3917.00	
Shut In Tool	5.00			3922.00	
Hydraulic tool	5.00			3927.00	
Jars	5.00			3932.00	
Safety Joint	2.00			3934.00	
Packer	5.00			3939.00	27.00 Bottom Of Top Packer
Packer	4.00			3943.00	
Stubb	1.00			3944.00	
Recorder	0.00	8875	Inside	3944.00	
Recorder	0.00	8166	Outside	3944.00	
Perforations	31.00			3975.00	
Bullnose	5.00			3980.00	37.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65660

**DST#: 2**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.12 @ 13:00:54

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

19000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
124.00	mcw 90%w 10%m	0.637
124.00	ocmw 10%o 70%w 20%m	1.739
186.00	gocw m 5%g 5%o 20%w 70%m	2.609
20.00	go 10%g 90%o	0.281
0.00	102 GIP	0.000

Total Length: 454.00 ft      Total Volume: 5.266 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 34@60=34

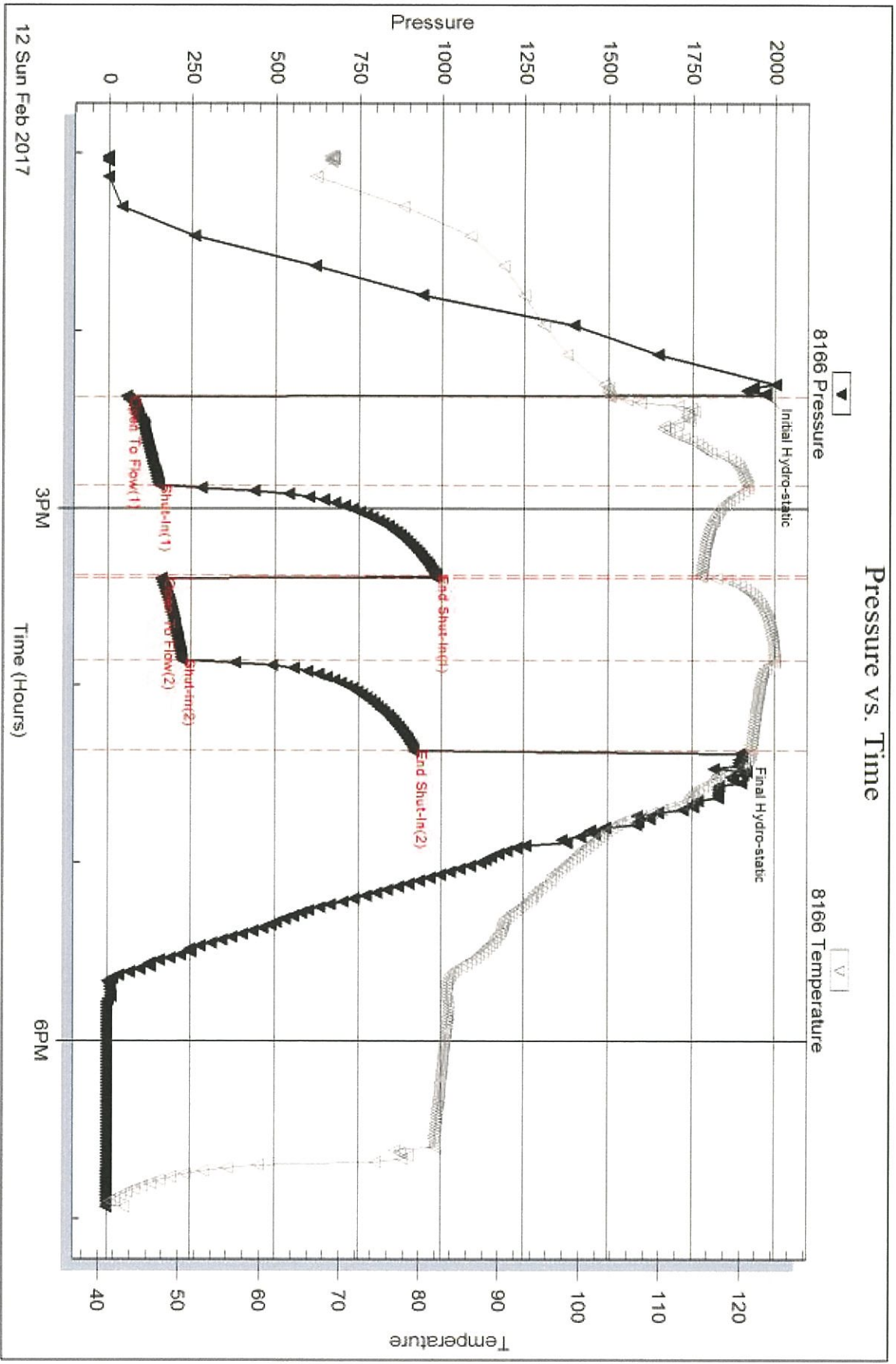
.45@65=19000

Serial #: 8166

Outside Palomiro Petroleum Inc

Butterfield #1

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 65660

Printed: 2017.02.16 @ 10:35:52

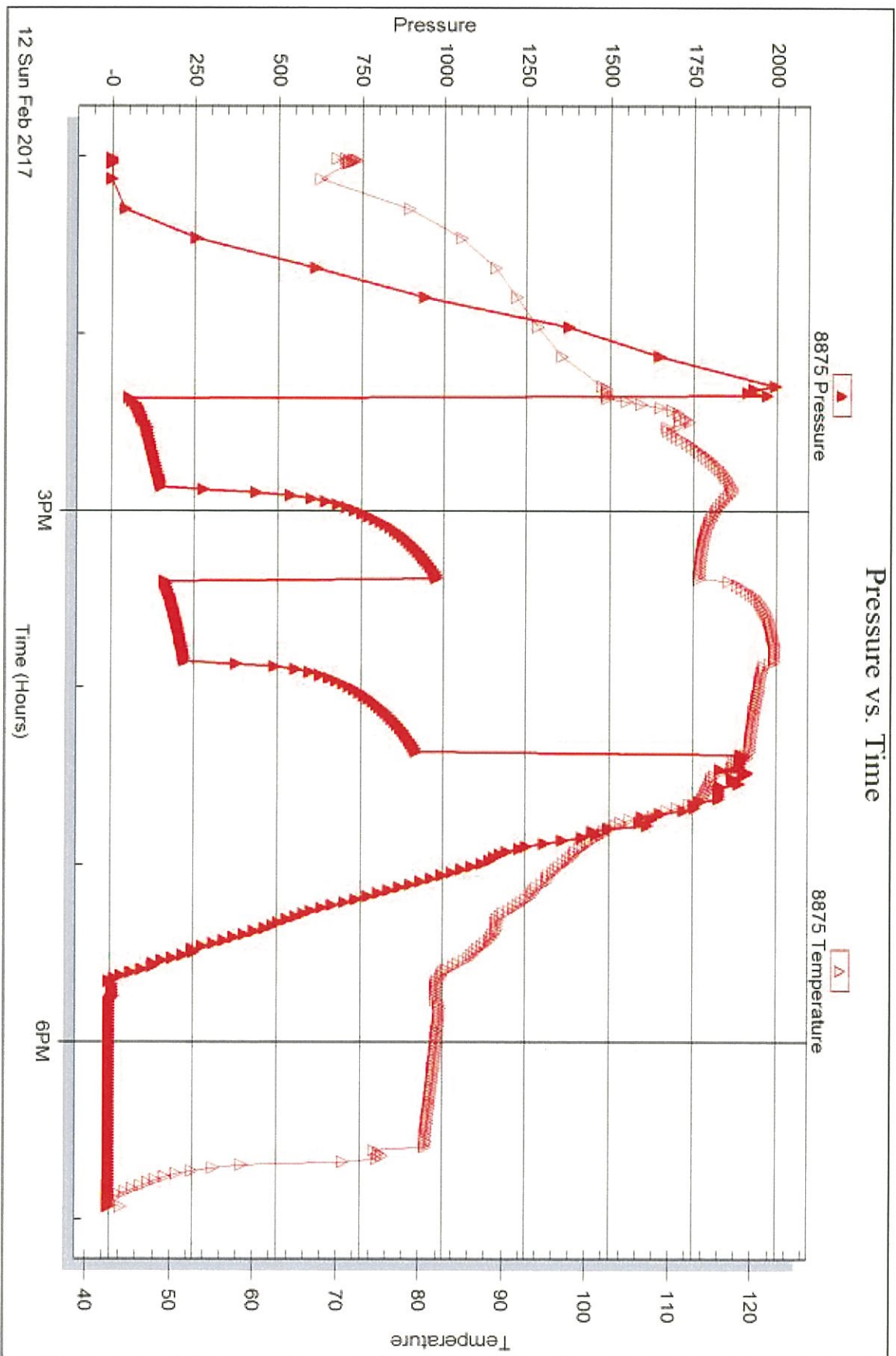
Serial #: 8875

Inside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 2

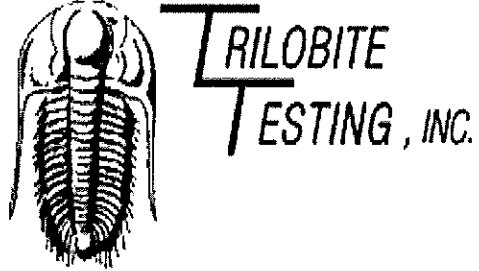


Tribble Testing, Inc

Ref. No: 65660

Printed: 2017.02.16 @ 10:33:52





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

### **Butterfield #1**

### **S11-14S-26W Gove,KS**

Start Date: 2017.02.13 @ 03:49:34

End Date: 2017.02.13 @ 10:31:34

Job Ticket #: 65661                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:33:32

Palomino Petroleum Inc

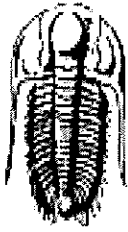
S11-14S-26W Gove,KS

Butterfield #1

DST # 3

LKC I - J

2017.02.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65661

**DST#: 3**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 03:49:34

## GENERAL INFORMATION:

Formation: **LKC 1 - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:35:34

Time Test Ended: 10:31:34

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **3984.00 ft (KB) To 4028.00 ft (KB) (TVD)**

Reference Elevations: 2518.00 ft (KB)

Total Depth: 4028.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 693.93 psig @ 3989.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.13

End Date: 2017.02.13

Last Calib.: 2017.02.13

Start Time: 03:49:39

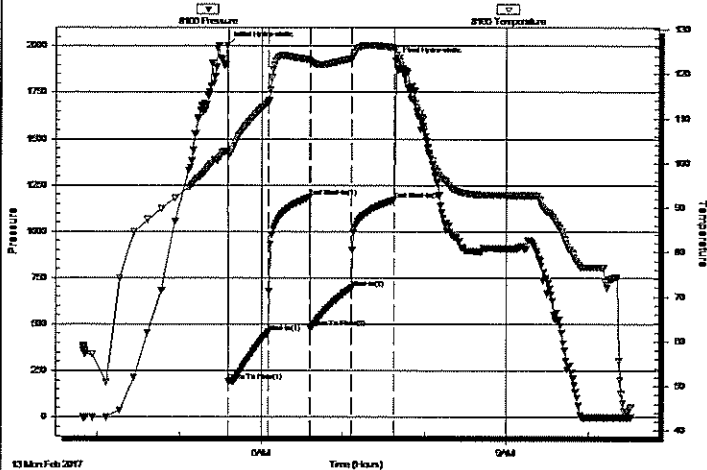
End Time: 10:31:33

Time On Btm: 2017.02.13 @ 05:34:34

Time Off Btm: 2017.02.13 @ 07:38:34

**TEST COMMENT:** IF: BOB in 2 min.  
IS: BOB in 5 min.  
FF: BOB in 2 min. Gas to surface in 30 min.  
FS: BOB in 5 min.

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.82	102.74	Initial Hydro-static
1	190.25	102.05	Open To Flow (1)
31	454.98	113.66	Shut-In(1)
61	1183.55	123.13	End Shut-In(1)
62	476.76	122.83	Open To Flow (2)
92	693.93	123.42	Shut-In(2)
123	1168.80	125.81	End Shut-In(2)
124	1917.48	125.71	Final Hydro-static

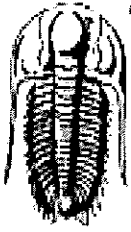
## Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcgo 10%g 70%o 20%m	1.51
1798.00		25.22

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc  
4924 SE 84th St  
New ton, KS 67114  
ATTN: Pat Deenihan/ Nick G

**S11-14S-26W Gove,KS**  
**Butterfield #1**  
Job Ticket: 65661 **DST#: 3**  
Test Start: 2017.02.13 @ 03:49:34

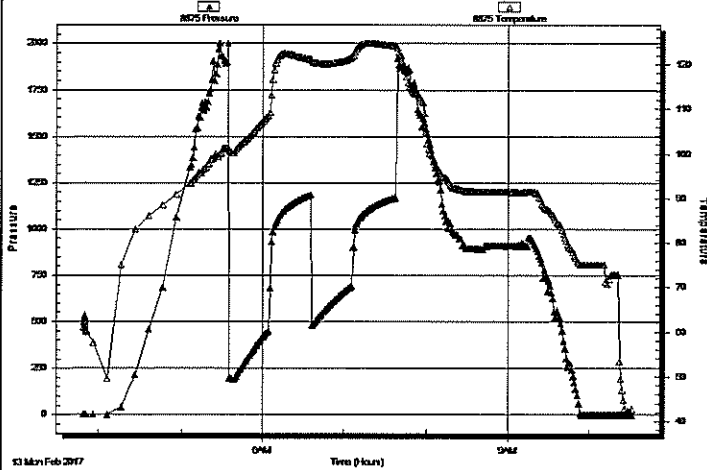
## GENERAL INFORMATION:

Formation: **LKC 1 - J**  
Deviated: **No Whipstock:** ft (KB)  
Time Tool Opened: 05:35:34  
Time Test Ended: 10:31:34  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Brandon Turley**  
Unit No: **79**  
Interval: **3984.00 ft (KB) To 4028.00 ft (KB) (TVD)**  
Reference Elevations: **2518.00 ft (KB)**  
Total Depth: **4028.00 ft (KB) (TVD)**  
**2510.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
KB to GR/CF: **8.00 ft**

**Serial #: 8875** **Inside**  
Press@RunDepth: psig @ **3989.00 ft (KB)** Capacity: **8000.00 psig**  
Start Date: **2017.02.13** End Date: **2017.02.13** Last Calib.: **2017.02.13**  
Start Time: **03:49:28** End Time: **10:31:22** Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: BOB in 2 min.  
IS: BOB in 5 min.  
FF: BOB in 2 min. Gas to surface in 30 min.  
FS: BOB in 5 min.

Pressure vs. Time



## PRESSURE SUMMARY

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

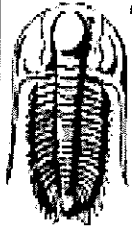
## Recovery

Length (ft)	Description	Volume (bbl)
186.00	mcgo 10%g 70%o 20%m	1.51
1798.00		25.22

\* 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

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65661

**DST#: 3**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 03:49:34

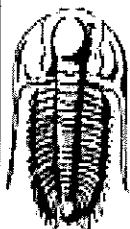
## Tool Information

Drill Pipe:	Length: 3850.00 ft	Diameter: 3.80 inches	Volume: 54.01 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 54.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3984.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	48.00 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
Stubb	1.00			3969.00	
Shut In Tool	5.00			3974.00	
Hydraulic tool	5.00			3979.00	
Packer	5.00			3984.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8875	Inside	3989.00	
Recorder	0.00	8166	Outside	3989.00	
Perforations	5.00			3994.00	
Change Over Sub	1.00			3995.00	
Drill Pipe	31.00			4026.00	
Change Over Sub	1.00			4027.00	
Bullnose	5.00			4032.00	48.00 Anchor Tool

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc

S11-14S-26W Gove,KS

4924 SE 84th St  
New ton, KS 67114

Butterfield #1

Job Ticket: 65661

DST#: 3

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 03:49:34

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbf

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
186.00	mcgo 10%g 70%o 20%m	1.507
1798.00		25.221

Total Length: 1984.00 ft

Total Volume: 26.728 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

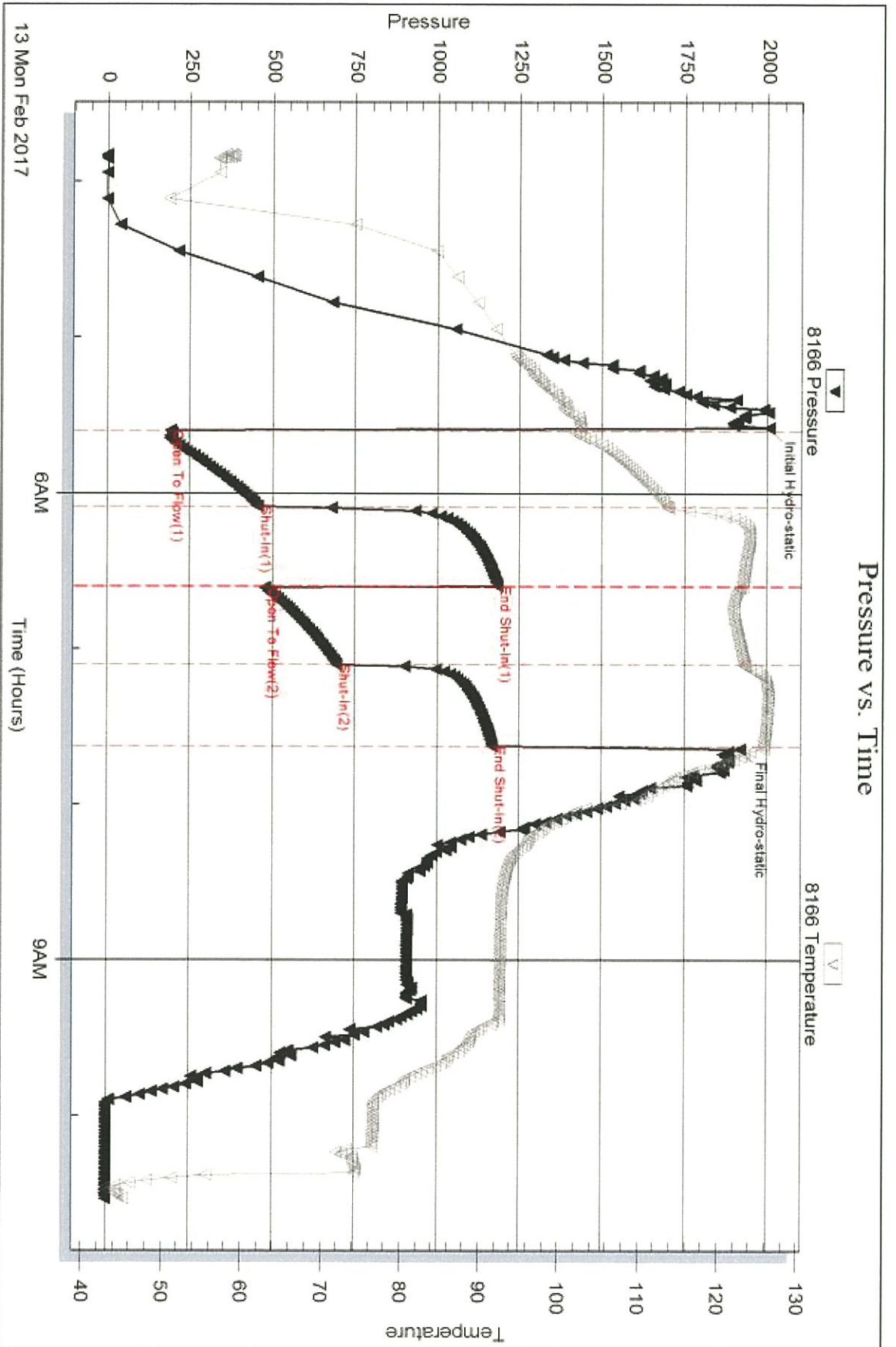
Recovery Comments: 33@40=35

Serial #: 8166

Outside Palominio Petroleum Inc

Butterfield #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 65661

Printed: 2017.02.16 @ 10:33:32

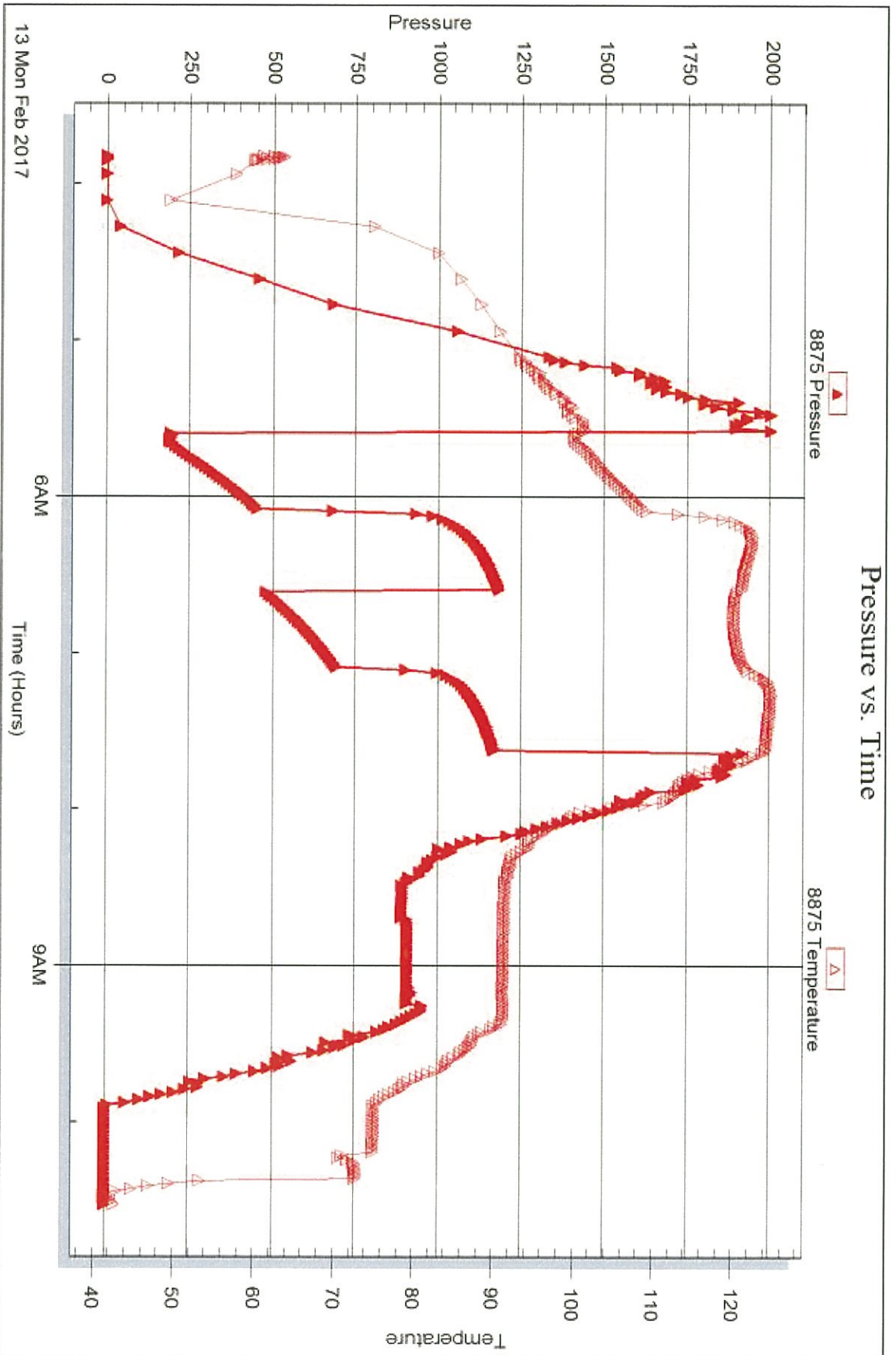
Serial #: 8875

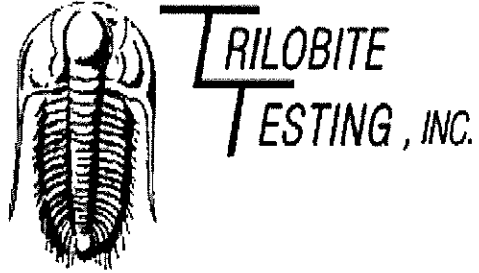
Inside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 3





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

### **Butterfield #1**

### **S11-14S-26W Gove,KS**

Start Date: 2017.02.13 @ 18:53:30

End Date: 2017.02.14 @ 00:55:00

Job Ticket #: 65662                      DST #: 4

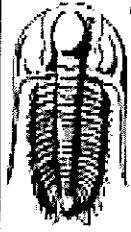
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:33:09





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65662

**DST#: 4**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 18:53:30

## GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:30

Time Test Ended: 00:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4028.00 ft (KB) To 4054.00 ft (KB) (TVD)**

Total Depth: 4054.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2518.00 ft (KB)

2510.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8166**

**Outside**

Press@RunDepth: 14.32 psig @ 4033.00 ft (KB)

Start Date: 2017.02.13

End Date:

2017.02.14

Capacity: 8000.00 psig

Last Calib.: 2017.02.14

Start Time: 18:53:35

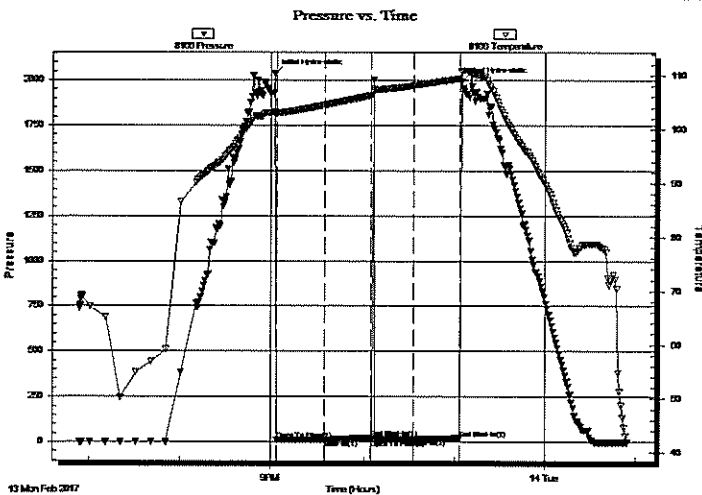
End Time:

00:54:59

Time On Btm: 2017.02.13 @ 21:02:30

Time Off Btm: 2017.02.13 @ 23:04:30

**TEST COMMENT:** IF: Surface blow died in 10 min.  
IS: No return.  
FF: No blow. Flushed tool no blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2037.76	103.10	Initial Hydro-static
1	10.86	102.82	Open To Flow (1)
32	11.66	104.47	Shut-In(1)
62	21.70	106.23	End Shut-In(1)
63	11.84	106.25	Open To Flow (2)
91	14.32	108.13	Shut-In(2)
121	18.58	109.44	End Shut-In(2)
122	1992.75	110.73	Final Hydro-static

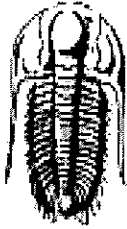
## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum Inc

S11-14S-26W Gove, KS

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65662

DST#: 4

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 18:53:30

### GENERAL INFORMATION:

Formation: LKC K  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:03:30  
Time Test Ended: 00:55:00

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

Interval: 4028.00 ft (KB) To 4054.00 ft (KB) (TVD)  
Total Depth: 4054.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2518.00 ft (KB)  
2510.00 ft (CF)  
KB to GR/CF: 8.00 ft

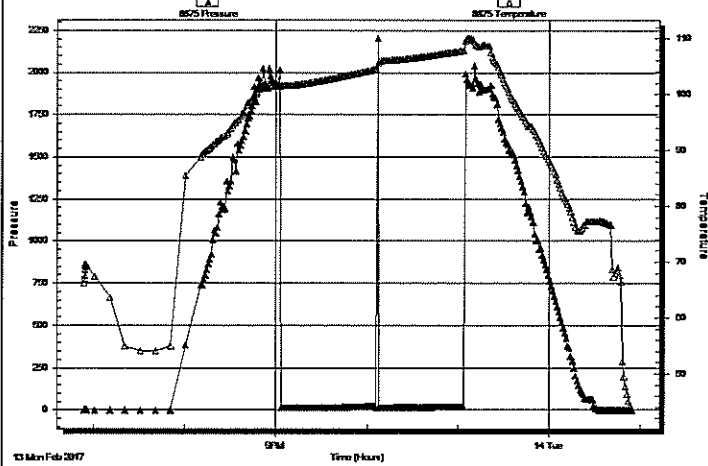
**Serial #: 8875** Inside

Press@RunDepth: psig @ 4033.00 ft (KB)  
Start Date: 2017.02.13 End Date: 2017.02.14  
Start Time: 18:53:40 End Time: 00:55:04

Capacity: 8000.00 psig  
Last Calib.: 2017.02.14  
Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: Surface blow died in 10 min.  
IS: No return.  
FF: No blow. Flushed tool no blow.  
FS: No return.

Pressure vs. Time



### PRESSURE SUMMARY

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

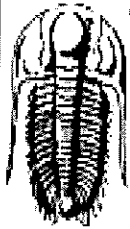
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

\* 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

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65662

**DST#: 4**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 18:53:30

### Tool Information

Drill Pipe:	Length: 3910.00 ft	Diameter: 3.80 inches	Volume: 54.85 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: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 55.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4028.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4013.00	
Shut In Tool	5.00			4018.00	
Hydraulic tool	5.00			4023.00	
Packer	5.00			4028.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4032.00	
Stubb	1.00			4033.00	
Recorder	0.00	8875	Inside	4033.00	
Recorder	0.00	8166	Outside	4033.00	
Perforations	20.00			4053.00	
Bullnose	5.00			4058.00	30.00 Anchor Tool
<b>Total Tool Length:</b>	<b>46.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 65662

**DST#: 4**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.13 @ 18:53:30

## 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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

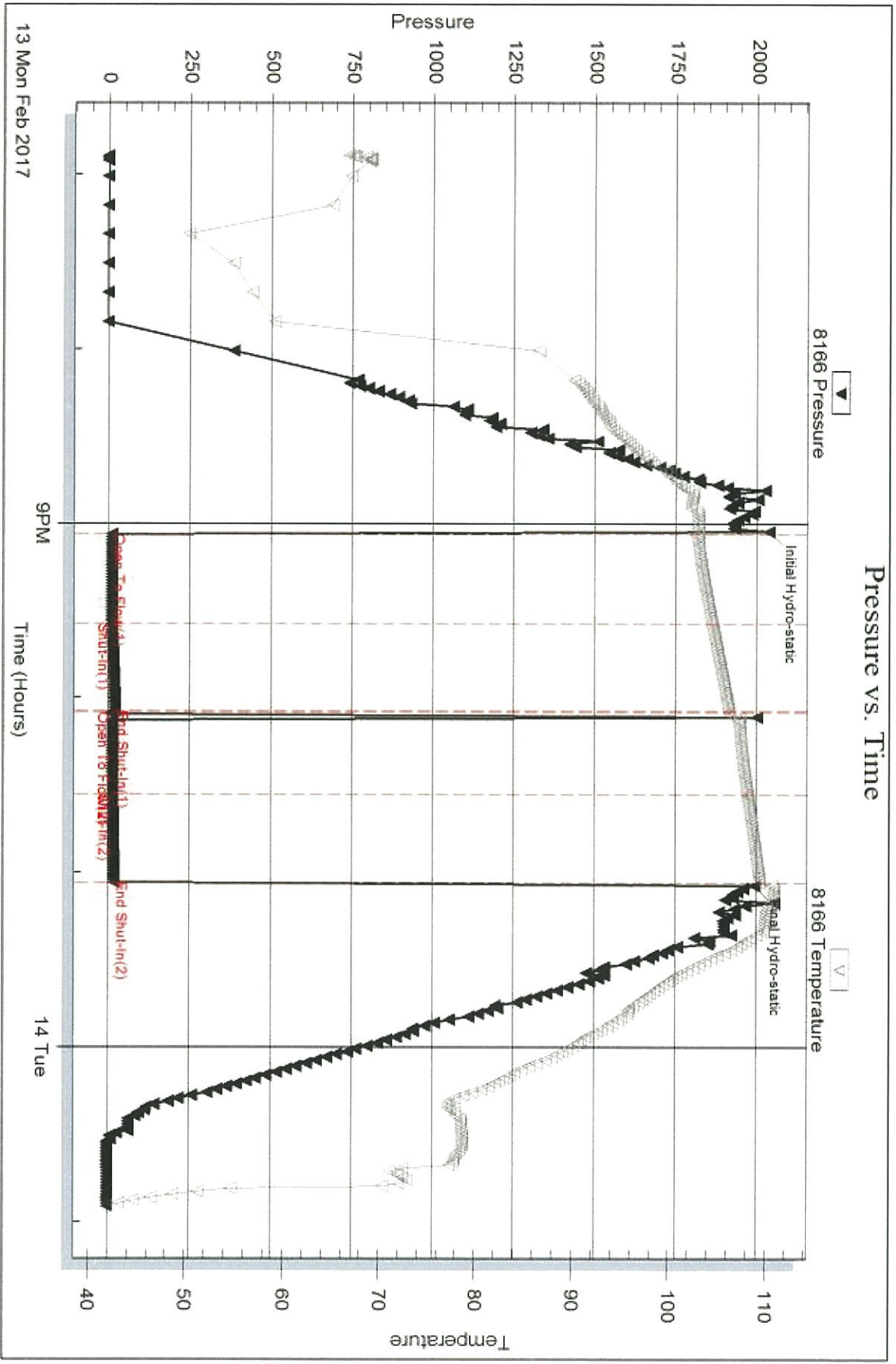
Serial #: 8166

Outside Palomiro Petroleum Inc

Butterfield #1

DST Test Number: 4

### Pressure vs. Time



Tribble Testing, Inc

Ref. No: 65662

Printed: 2017.02.16 @ 10:33:09

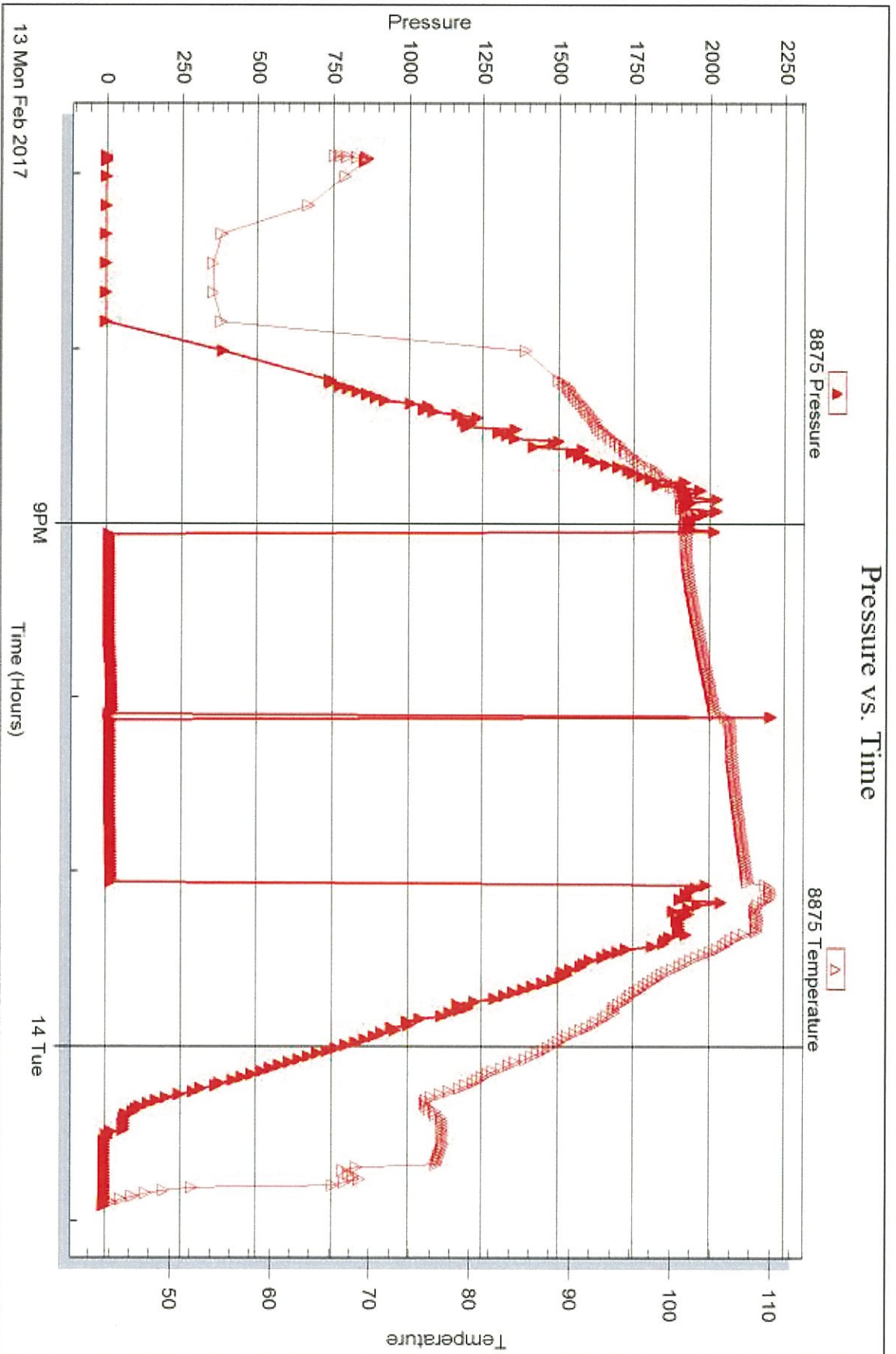
Serial #: 8875

Inside

Palomino Petroleum Inc

Butterfield #1

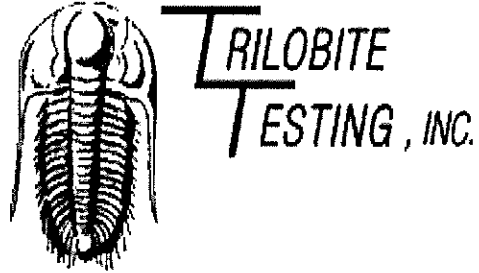
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 65662

Printed: 2017.02.16 @ 10:33:09



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

### **Butterfield #1**

### **S11-14S-26W Gove,KS**

Start Date: 2017.02.14 @ 09:33:00

End Date: 2017.02.14 @ 13:13:30

Job Ticket #: 63504                      DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:32:40



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 63504

**DST#: 5**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 09:33:00

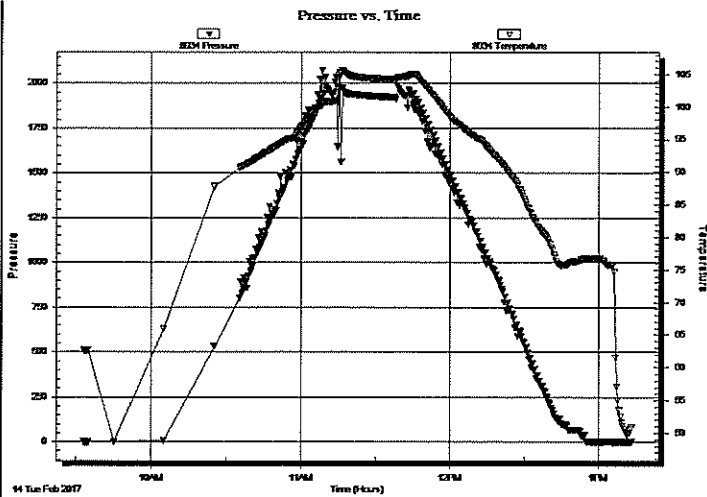
### GENERAL INFORMATION:

Formation: **LKC L**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended: 13:13:30  
 Interval: **4050.00 ft (KB) To 4064.00 ft (KB) (TVD)**  
 Total Depth: 4084.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Spencer J. Staab  
 Unit No: 84  
 Reference Elevations: 2518.00 ft (KB)  
 2510.00 ft (CF)  
 KB to GR/CF: 8.00 ft

### Serial #: 8934

Press@RunDepth: psig @ ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2017.02.14 End Date: 2017.02.14 Last Calib.: 2017.02.14  
 Start Time: 09:33:05 End Time: 13:13:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: Packer Failure



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum Inc

4924 SE 84th St  
New ton, KS 67114

ATTN: Pat Deenihan/ Nick G

S11-14S-26W Gove,KS

Butterfield #1

Job Ticket: 63504

DST#: 5

Test Start: 2017.02.14 @ 09:33:00

### GENERAL INFORMATION:

Formation: LKC L

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 13:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 4050.00 ft (KB) To 4064.00 ft (KB) (TVD)

Reference Elevations: 2518.00 ft (KB)

Total Depth: 4084.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

### Serial #: 9120

Press@RunDepth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.14

End Date:

2017.02.14

Last Calib.: 2017.02.14

Start Time: 09:33:15

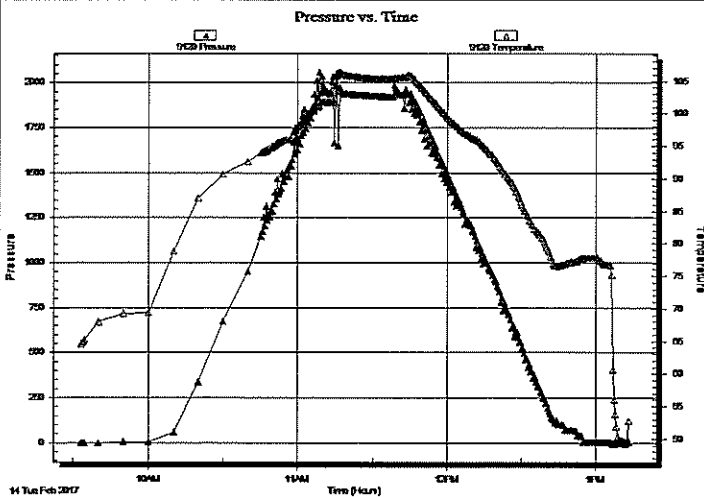
End Time:

13:13:30

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



### PRESSURE SUMMARY

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

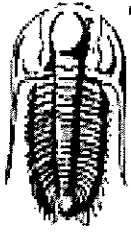
### Recovery

Length (ft)	Description	Volume (bbl)

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc

S11-14S-26W Gove,KS

4924 SE 84th St  
New ton, KS 67114

Butterfield #1

Job Ticket: 63504

DST#: 5

ATTN: Pat Deenihan/ Nick G

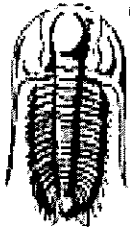
Test Start: 2017.02.14 @ 09:33:00

## Tool Information

Drill Pipe:	Length: 3922.00 ft	Diameter: 3.80 inches	Volume: 55.02 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: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: lb
			<u>Total Volume: 55.62 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial lb
Depth to Top Packer:	4050.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	50.00 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			4035.00	
Shut In Tool	5.00			4040.00	
Hydraulic tool	5.00			4045.00	
Packer	5.00			4050.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4054.00	
Stubb	1.00			4055.00	
Recorder	0.00	9120	Outside	4055.00	
Recorder	0.00	8938	Inside	4055.00	
Perforations	25.00			4080.00	
Bullnose	4.00			4084.00	34.00 Anchor Tool
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum Inc

S11-14S-26W Gove,KS

4924 SE 84th St  
New ton, KS 67114

Butterfield #1

Job Ticket: 63504

DST#: 5

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 09:33:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

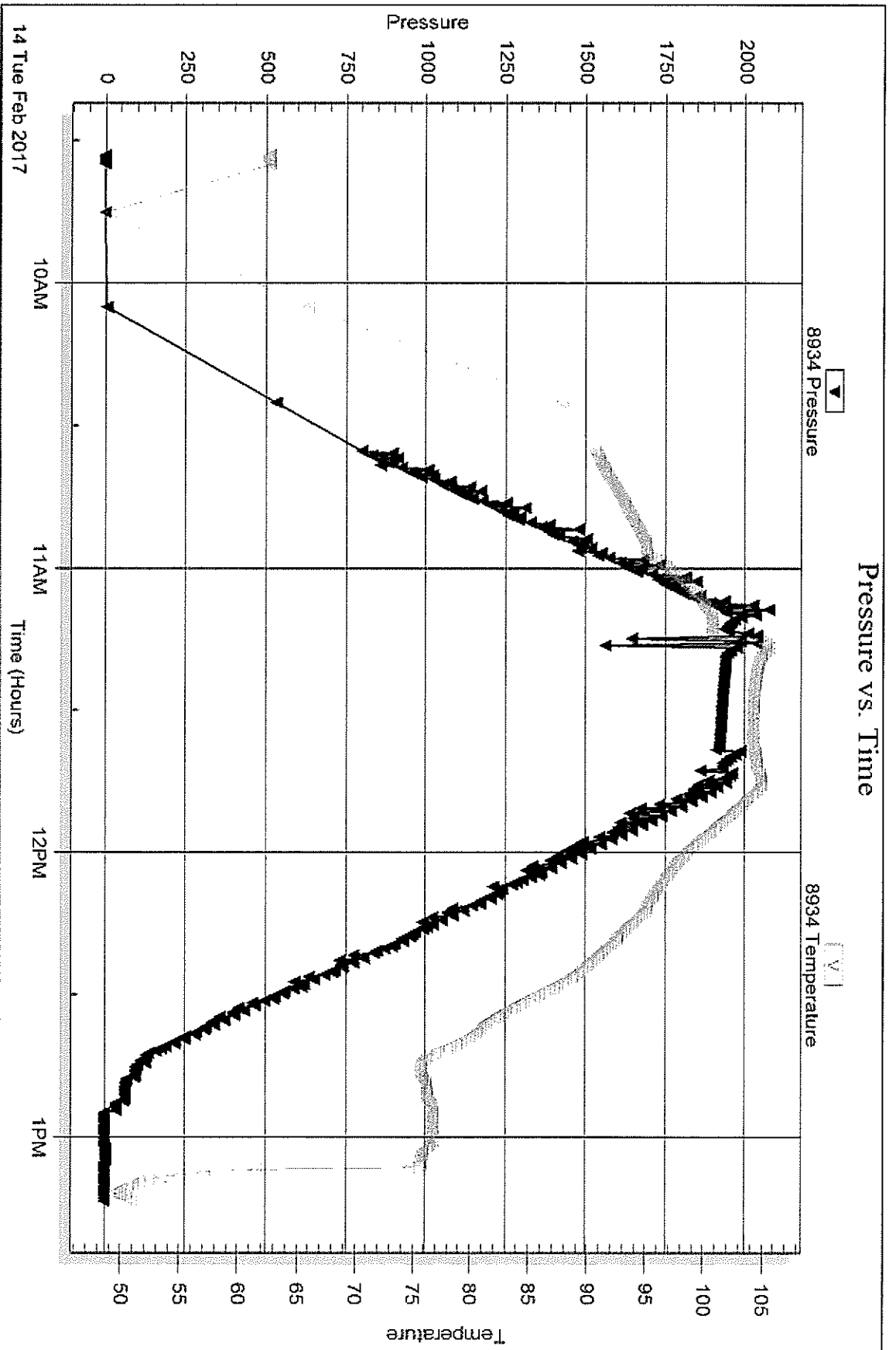
Recovery Comments:

Serial #: 8934

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 63504

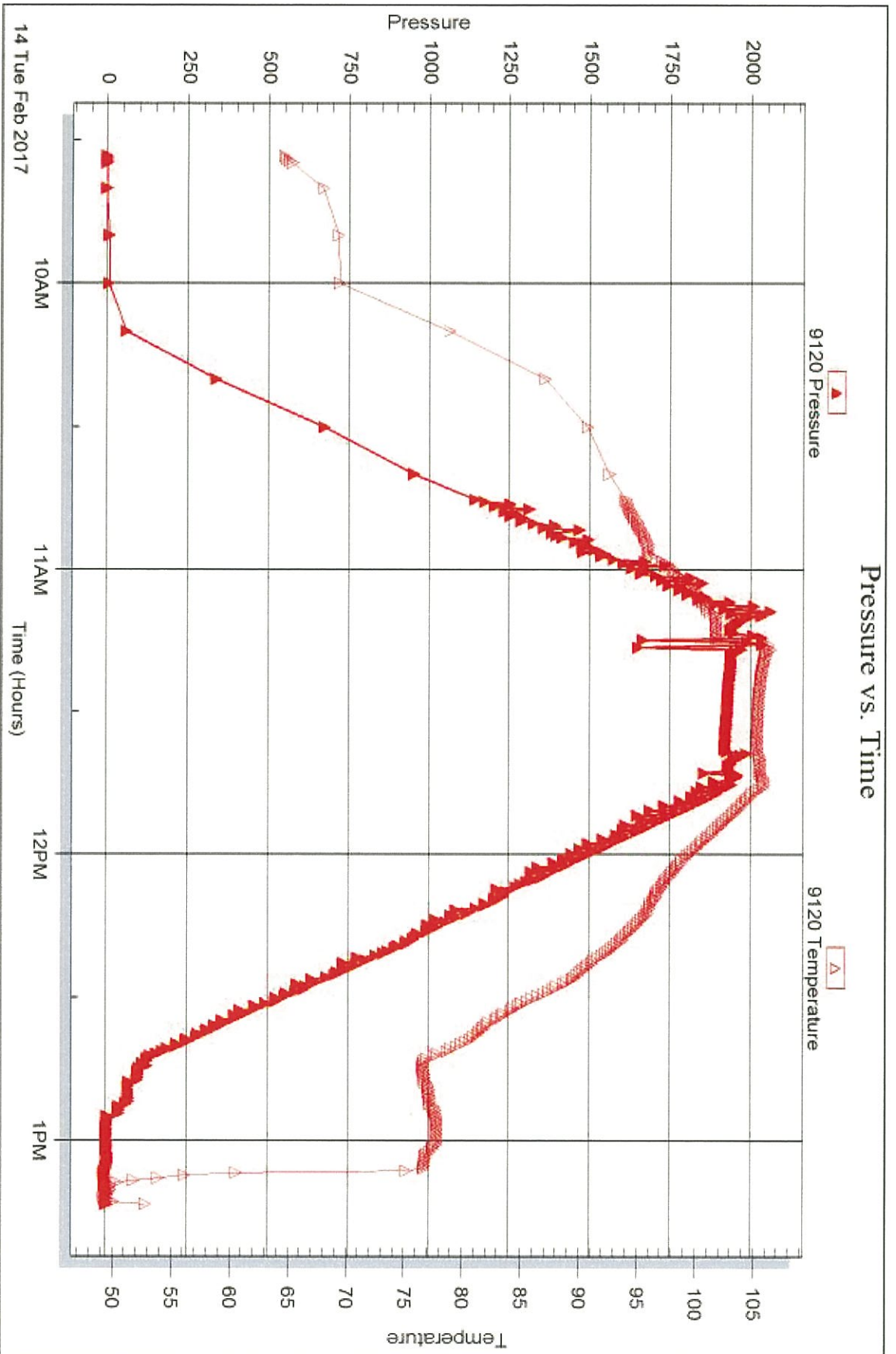
Printed 2017 02:16 @ 10:32:41

Serial #: 9120

Palomino Petroleum Inc

Butterfield #1

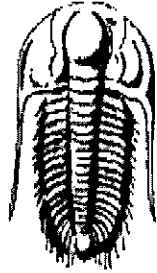
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63504

Printed: 2017.02.16 @ 10:32:41



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

## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc**

4924 SE 84th St  
Newton, KS 67114

ATTN: Pat Deenihan/ Nick G

**Butterfield #1**

**S11-14S-26W Gove,KS**

Start Date: 2017.02.14 @ 13:41:00

End Date: 2017.02.14 @ 20:16:15

Job Ticket #: 63505                      DST #: 6

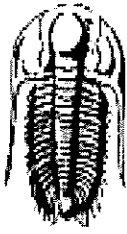
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:32:13

Palomino Petroleum Inc  
S11-14S-26W Gove,KS  
Butterfield #1  
DST # 6  
LKC K-L  
2017.02.14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove, KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 63505

**DST#: 6**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 13:41:00

## GENERAL INFORMATION:

Formation: LKC K-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 20:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 4028.00 ft (KB) To 4084.00 ft (KB) (TVD)

Total Depth: 4084.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2518.00 ft (KB)

2510.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8934**

**Outside**

Press@RunDepth: 15.81 psig @ 4033.00 ft (KB)

Start Date: 2017.02.14

End Date: 2017.02.14

Start Time: 13:41:05

End Time: 20:16:14

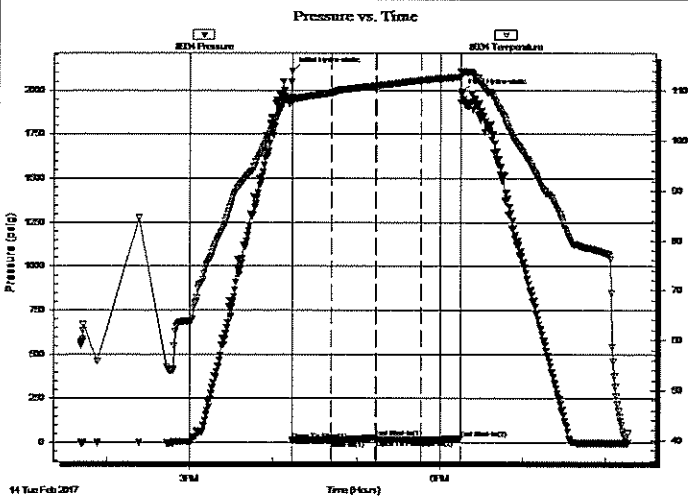
Capacity: 8000.00 psig

Last Calib.: 2017.02.14

Time On Btm: 2017.02.14 @ 16:13:45

Time Off Btm: 2017.02.14 @ 18:15:15

**TEST COMMENT:** 30-IF-Very Weak Blow ; Built from a surface blow to a 1/4" blow  
30-IS-No Blow Back  
30-FF-No Blow  
30-FSI-No Blow Back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.79	108.65	Initial Hydro-static
1	13.16	107.95	Open To Flow (1)
29	14.35	109.57	Shut-In(1)
60	28.17	110.95	End Shut-In(1)
61	15.13	110.95	Open To Flow (2)
92	15.81	112.08	Shut-In(2)
121	21.16	112.80	End Shut-In(2)
122	1989.83	113.66	Final Hydro-static

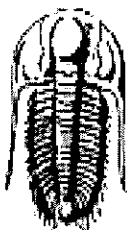
## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud with oil specks 100% M	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 63505

**DST#: 6**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 13:41:00

### GENERAL INFORMATION:

Formation: LKC K-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:14:00

Time Test Ended: 20:16:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 4028.00 ft (KB) To 4084.00 ft (KB) (TVD)

Reference Elevations: 2518.00 ft (KB)

Total Depth: 4084.00 ft (KB) (TVD)

2510.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 9120**

Inside

Press@RunDepth: psig @ 4033.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.02.14

End Date:

2017.02.14

Last Calib.:

2017.02.14

Start Time: 13:41:15

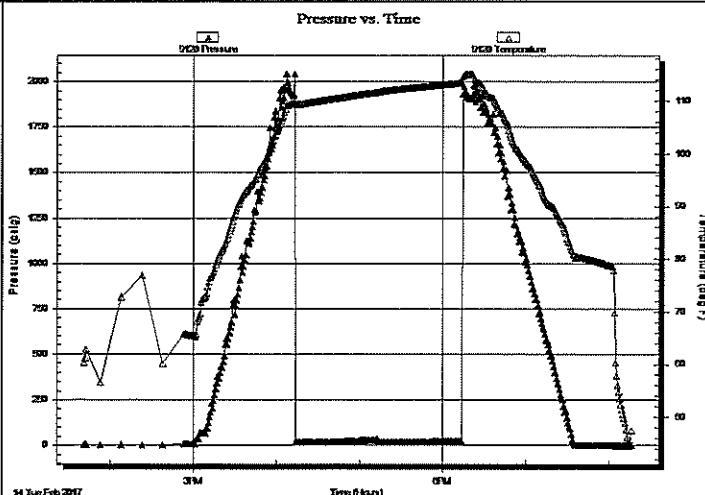
End Time:

20:16:15

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IF-Very Weak Blow ; Built from a surface blow to a 1/4" blow  
30-ISI-No Blow Back  
30-FF-No Blow  
30-FSI-No Blow Back



### PRESSURE SUMMARY

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

### Recovery

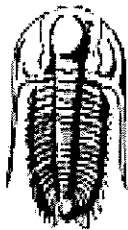
Length (ft)	Description	Volume (bbl)
4.00	Mud with oil specks 100% M	0.02

\* 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

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 63505

**DST#: 6**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 13:41:00

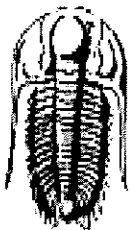
## Tool Information

Drill Pipe:	Length: 3921.00 ft	Diameter: 3.80 inches	Volume: 55.00 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: 25000.00 lb
Drill Collar:	Length: 121.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 55.60 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4028.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	72.00 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			4013.00	
Shut In Tool	5.00			4018.00	
Hydraulic tool	5.00			4023.00	
Packer	5.00			4028.00	16.00 Bottom Of Top Packer
Packer - Shale	4.00			4032.00	
Stubb	1.00			4033.00	
Recorder	0.00	9120	Inside	4033.00	
Recorder	0.00	8934	Outside	4033.00	
Perforations	13.00			4046.00	
Change Over Sub	1.00			4047.00	
Drill Pipe	32.00			4079.00	
Change Over Sub	1.00			4080.00	
Bullnose	4.00			4084.00	56.00 Anchor Tool

**Total Tool Length: 72.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum Inc

**S11-14S-26W Gove,KS**

4924 SE 84th St  
New ton, KS 67114

**Butterfield #1**

Job Ticket: 63505

**DST#: 6**

ATTN: Pat Deenihan/ Nick G

Test Start: 2017.02.14 @ 13:41:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud w ith oil specks 100% M	0.020

Total Length: 4.00 ft      Total Volume: 0.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

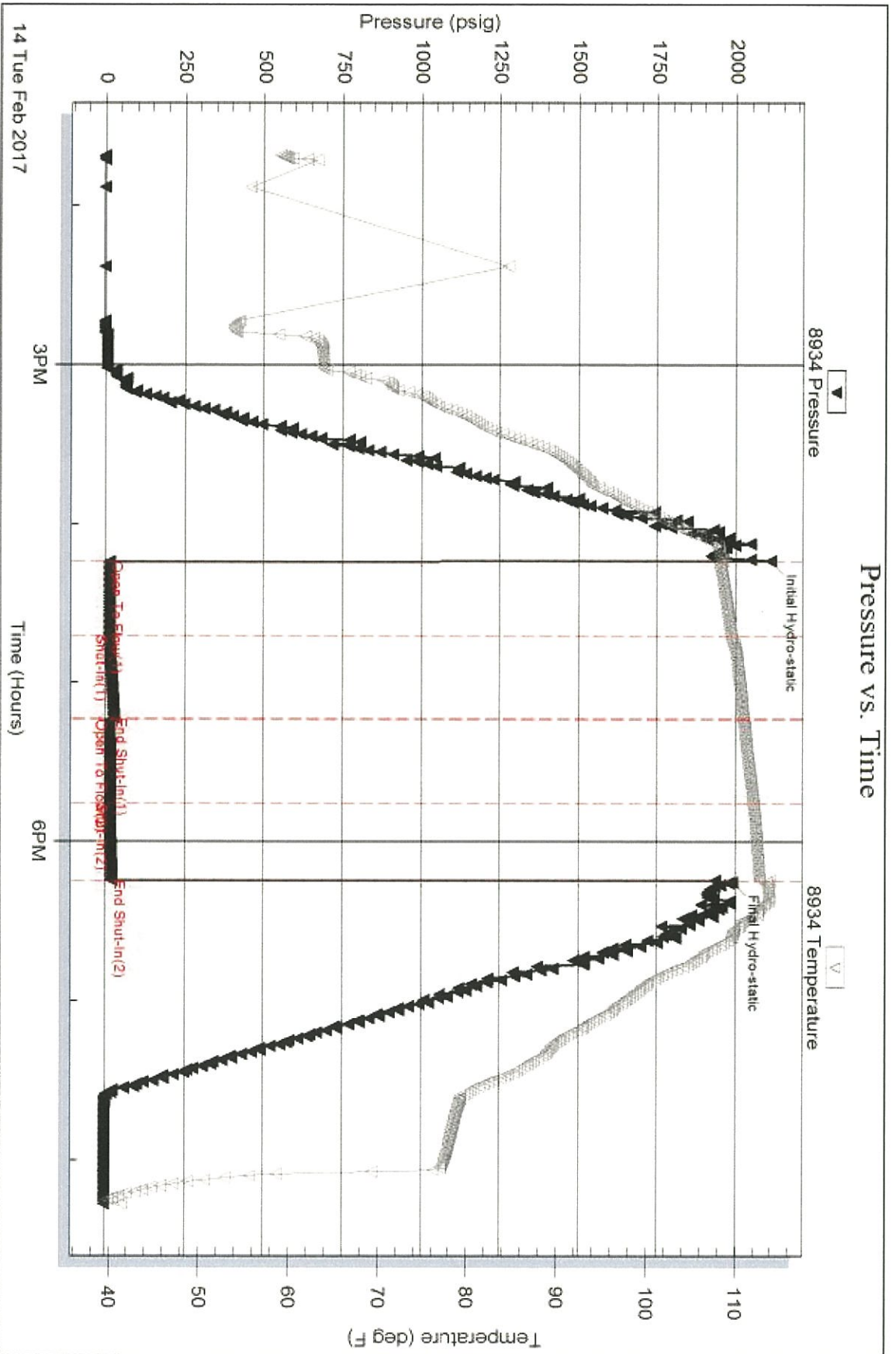
Serial #: 8934

Outside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 6



Tribble Testing, Inc

Ref. No: 63505

Printed: 2017.02.16 @ 10:32:13

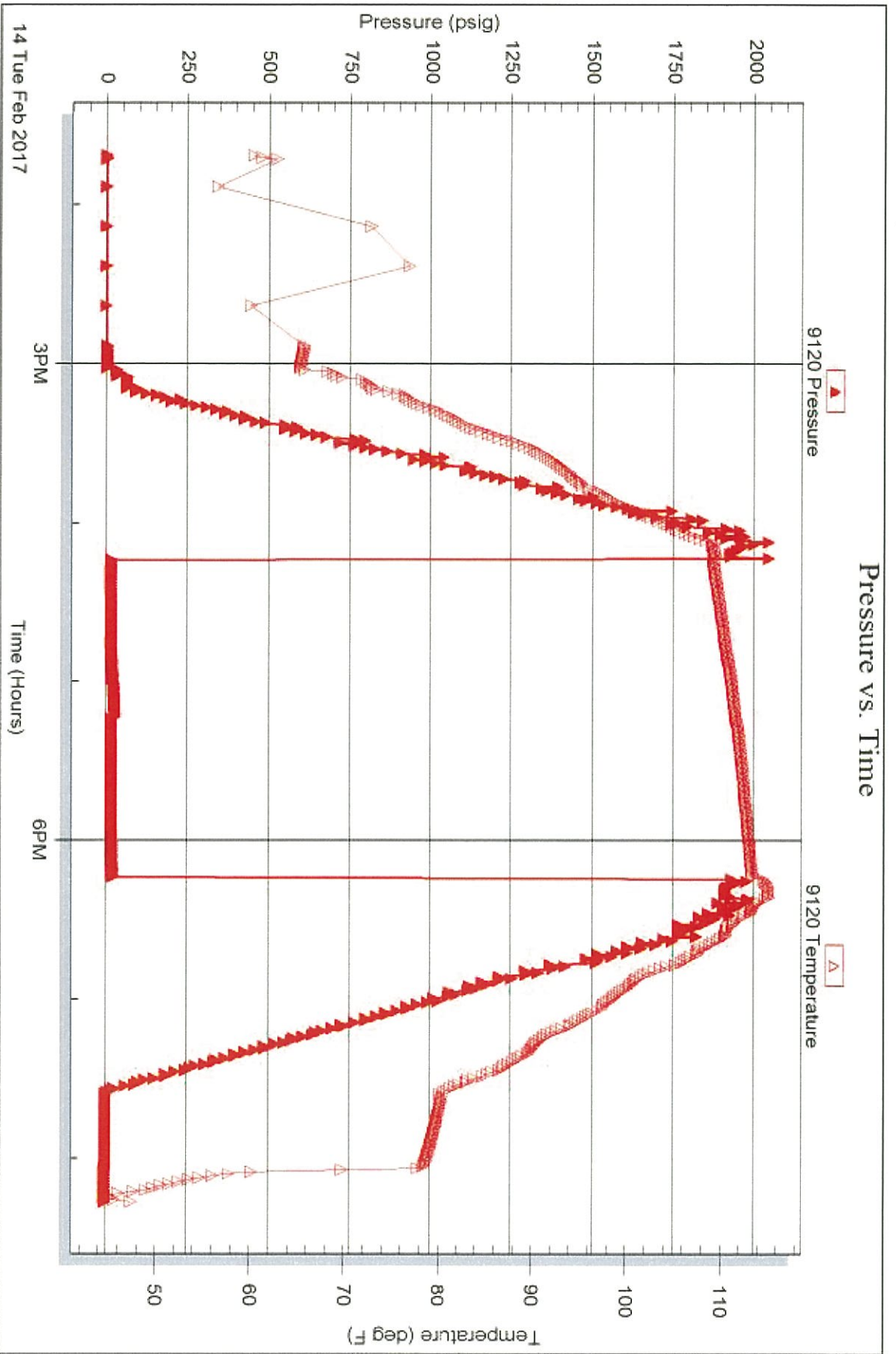
Serial #: 9120

Inside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 63505

Printed: 2017.02.16 @ 10:32:14



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **65659**

4/10

Well Name & No. Butterfield #1 Test No. 1 Date 2-11-16  
 Company Palomino Petroleum Inc Elevation 2549 KB 2510 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Sean Deenihan Rig WIN #2  
 Location: Sec. 11 Twp. 14 Rge. 26 Co. Gove State KS

Interval Tested 3818 3838 Zone Tested ?  
 Anchor Length 20 Drill Pipe Run 3696 Mud Wt. 8.9  
 Top Packer Depth 3813 Drill Collars Run 121 Vis 53  
 Bottom Packer Depth 3818 Wt. Pipe Run — WL 6.8  
 Total Depth 3838 Chlorides 3500 ppm System LCM 2

Blow Description FF: 1/4 blow built to 1 1/2.  
FS: No return.  
FF: surface blow built to 1.  
FS: NO return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>152</u>	<u>MLW</u>		<u>60</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 152 BHT 113 Gravity — API RW .23 @ 50 °F Chlorides 46,000 ppm

(A) Initial Hydrostatic 1899  Test 1050 T-On Location 16:30  
 (B) First Initial Flow 19  Jars 250 T-Started 17:38  
 (C) First Final Flow 69  Safety Joint 75 T-Open 19:40  
 (D) Initial Shut-In 1215  Circ Sub NIL T-Pulled 21:40  
 (E) Second Initial Flow 71  Hourly Standby \_\_\_\_\_ T-Out 23:50  
 (F) Second Final Flow 90  Mileage 140 - 132ft 99 Comments \_\_\_\_\_  
 (G) Final Shut-In 1195  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1854  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Sub Total 1474  Accessibility \_\_\_\_\_  
 Total 1474  Ruined Shale Packer \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Sub Total 1474  Extra Copies \_\_\_\_\_  
 Sub Total 0  Day Standby \_\_\_\_\_  
 Total 1474  Accessibility \_\_\_\_\_

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. **65660**

Well Name & No. Butterfield #1 Test No. 2 Date 2-12-17  
 Company Palomino Petroleum Inc Elevation 2517 KB 2510 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Sean Deenihan Rig WW #12  
 Location: Sec. 11 Twp. 14 Rge. 26 Co. Gove State KS

Interval Tested 3943 3980 Zone Tested H  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 3825 Mud Wt. 9.0  
 Top Packer Depth 3938 Drill Collars Run 121 Vis 42  
 Bottom Packer Depth 3943 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth 3980 Chlorides 4300 ppm System LCM Z

Blow Description IF: BoB in 6 min.  
IS: No return.  
EF: BoB in 14 min.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>186</u>	<u>90 cwm</u>	<u>5</u>	<u>5</u>	<u>20</u>	<u>70</u>
<u>124</u>	<u>60 cwm</u>		<u>10</u>	<u>70</u>	<u>20</u>
<u>124</u>	<u>MCW</u>			<u>90</u>	<u>10</u>
Rec	Feet of <u>102 GIP</u>	%gas	%oil	%water	%mud
Rec Total <u>454</u>	BHT <u>121</u>	Gravity <u>34</u>	API RW <u>18.5</u>	@ <u>8.5</u> °F	Chlorides <u>19,000</u> ppm

(A) Initial Hydrostatic 1970  Test 1050 T-On Location 12:45  
 (B) First Initial Flow 53  Jars 250 T-Started 13:00  
 (C) First Final Flow 149  Safety Joint 75 T-Open 14:22  
 (D) Initial Shut-In 980  Circ Sub NIC T-Pulled 16:22  
 (E) Second Initial Flow 159  Hourly Standby \_\_\_\_\_ T-Out 19:00  
 (F) Second Final Flow 220  Mileage 140 - 99 Comments \_\_\_\_\_  
 (G) Final Shut-In 915  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1893  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Ruined Packer 320  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 320  
 Final Shut-In 30  Day Standby \_\_\_\_\_ Total 1794  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1474

Approved By [Signature] 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. **65661**

Well Name & No. Butterfield #1 Test No. 3 Date 2-13-17  
 Company Palomino Petroleum Inc Elevation 2517 KB 2510 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Sean Deenihan Rig WU#12  
 Location: Sec. 11 Twp. 14 Rge. 26 Co. Gove State KS

Interval Tested 3984 4028 Zone Tested IOJ  
 Anchor Length \_\_\_\_\_ 44 Drill Pipe Run 3850 Mud Wt. 9.0  
 Top Packer Depth \_\_\_\_\_ 3979 Drill Collars Run 121 Vis 42  
 Bottom Packer Depth \_\_\_\_\_ 3984 Wt. Pipe Run \_\_\_\_\_ WL 7.6  
 Total Depth \_\_\_\_\_ 4028 Chlorides 4300 ppm System LCM 2

Blow Description IF: BoB in 2 min.  
IS: BoB in 5 min.  
FF: BoB in 2 min. 695 to surface in 30 min.  
FS: BoB in 5 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1798</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>186</u>	<u>9-11 mlg</u>	<u>10</u>	<u>70</u>	<u>20</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 1984 BHT 123 Gravity 35 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2062  Test 1150 T-On Location 3:30  
 (B) First Initial Flow 190  Jars \_\_\_\_\_ T-Started 3:49  
 (C) First Final Flow 454  Safety Joint \_\_\_\_\_ T-Open 5:34  
 (D) Initial Shut-In 1183  Circ Sub 50.00 T-Pulled 7:34  
 (E) Second Initial Flow 476  Hourly Standby \_\_\_\_\_ T-Out 10:30  
 (F) Second Final Flow 693  Mileage 140 99 Comments \_\_\_\_\_  
 (G) Final Shut-In 1168  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1917  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_  
 Sub Total 1549 MP/DST Disc't \_\_\_\_\_

Approved By Patrick Deenihan Our Representative \_\_\_\_\_

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. **65662**

Well Name & No. Butterfield #1 Test No. 4 Date 2-13-17  
 Company Palomino Petroleum Inc Elevation 2517 KB 2510 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Pat Deenihan Rig WW#12  
 Location: Sec. 11 Twp. 14 Rge. 26 Co. Gove State KS

Interval Tested 4028 4054 Zone Tested K  
 Anchor Length 26 Drill Pipe Run 3910 Mud Wt. 9.0  
 Top Packer Depth 4023 Drill Collars Run 121 Vis 59  
 Bottom Packer Depth 4028 Wt. Pipe Run \_\_\_\_\_ WL 6.4  
 Total Depth 4054 Chlorides 3800 ppm System LCM 1

Blow Description IF: surface blow died in 10 min.  
IS: No return.  
FF: No blow, Flushed tool no blow.  
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 109 Gravity = API RW — @ — °F Chlorides — ppm

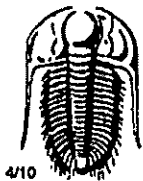
(A) Initial Hydrostatic 2037  Test 1150 T-On Location 17:15  
 (B) First Initial Flow 10  Jars \_\_\_\_\_ T-Started 18:53  
 (C) First Final Flow 11  Safety Joint \_\_\_\_\_ T-Open 21:02  
 (D) Initial Shut-In 21  Circ Sub N/C T-Pulled 23:02  
 (E) Second Initial Flow 11  Hourly Standby \_\_\_\_\_ T-Out 00:54  
 (F) Second Final Flow 14  Mileage 140 99 Comments \_\_\_\_\_  
 (G) Final Shut-In 18  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1992  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 30  Accessibility \_\_\_\_\_  
 Sub Total 1499 MP/DST Disc't \_\_\_\_\_

Approved By Patrick Deenihan 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. 63504

Well Name & No. Butterfield #1 Test No. 5 Date 02/14/2017  
 Company Palomino Petroleum Inc Elevation 2518 KB 2510 GL  
 Address 4924 SE 84th St Newton KS 67114  
 Co. Rep / Geo. Pat Deemihan / Rich Neustner Rig WW Drilling Rig #12  
 Location: Sec. 11 Twp. 14S Rge. 26W Co. Mo State Ks

Interval Tested 4050' - 4084' Zone Tested LKC "L" zone  
 Anchor Length 34' Drill Pipe Run 3922' Mud Wt. 9.0  
 Top Packer Depth 4045' Drill Collars Run 121' Vis 53  
 Bottom Packer Depth 4050' Wt. Pipe Run — WL 6.8  
 Total Depth 4084' Chlorides 4,100 ppm System LCM 1#

Blow Description 87-  
850-  
77- **Packer Failure**  
750-

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

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

(A) Initial Hydrostatic —  Test 950 T-On Location 06:45  
 (B) First Initial Flow —  Jars — T-Started 09:33  
 (C) First Final Flow —  Safety Joint — T-Open 11:10  
 (D) Initial Shut-In —  Circ Sub — T-Pulled 11:40  
 (E) Second Initial Flow —  Hourly Standby — T-Out 13:12  
 (F) Second Final Flow —  Mileage 132 RT 99 Comments Packer Failure, tried to set twice; came out of hole  
 (G) Final Shut-In —  Sampler —  Ruined Shale Packer —  
 (H) Final Hydrostatic —  Straddle —  Ruined Packer —

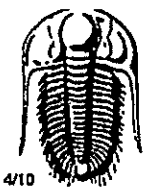
Initial Open 30 P  Extra Packer — Sub Total 0  
 Initial Shut-In Packer  Extra Recorder — Total 1299  
 Final Flow Failure  Day Standby — MP/DST Disc't —  
 Final Shut-In —  Accessibility —

Sub Total 1299

Approved By — Our Representative Spencer J. Stahl '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.

785-259-0056



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63505

Well Name & No. Butterfield #1 Test No. 6 Date 2/14/2017  
 Company Palomino Petroleum Inc. Elevation 2518 KB 2510 GL  
 Address 4924 SE 84th St Newton Ks 67114  
 Co. Rep / Geo. Pat Deenihan / Nick Herstner Rig 2000 Drilling Rig #12  
 Location: Sec. 11 Twp. 14S Rge. 26W Co. Line State Ks

Interval Tested 4028' - 4084' Zone Tested LKC 'A-L' zone  
 Anchor Length 56' Drill Pipe Run \_\_\_\_\_ Mud Wt. 9.0  
 Top Packer Depth 4023' Drill Collars Run 121' Vis 53  
 Bottom Packer Depth 4028' Wt. Pipe Run - WL 6.8  
 Total Depth 4084' Chlorides 4100 ppm System LCM 1#

Blow Description 67 - Very weak blow; built from a surface to 1/4 inch  
650 - No Blow Back  
77 - No Blow  
750 - No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>4'</u>	<u>Mud w/oil specks</u>			<u>100</u>	
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 4' BHT 113° Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm  
 (A) Initial Hydrostatic 2108  Test 1150 T-On Location 13:12  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 13:41  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 16:12  
 (D) Initial Shut-In 28  Circ Sub \_\_\_\_\_ T-Pulled 18:12  
 (E) Second Initial Flow 15  Hourly Standby \_\_\_\_\_ T-Out 20:14  
 (F) Second Final Flow 15  Mileage \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 21  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1989  Straddle \_\_\_\_\_

Shale Packer 250  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 1400  
 Sub Total 1400 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Spencer J. Neal - Thankyou  
 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.  
 285-209-2254