



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



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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

ADDRESS

CITY, STATE, ZIP CODE

TICKET 30212

PAGE 1 OF

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

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE \$115	50	mi			5.00	250.00
576D					Pump Charge	1	TOB			1850.00	1850.00
105					PORT COLAR OPENING TOOL	1	Kit			275.00	275.00
290					D-AIR	2	gals			42.00	84.00
276					FLOCELE	38	lbs			2.15	85.50
330					SMD CEMENT	15	SX			15.75	236.25
581					CEMENT SERVICE CHARGE	225	SX			1.50	337.50
583					DRYAGE	2236	0.165			559.07	1250.00

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

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

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

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

UN-DECIDED	DIS-AGREE	PAGE TOTAL	TOTAL
		5063	5312.35

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

SWIFT OPERATOR [Signature] APPROVAL

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 23 FEB 17 PAGE NO.

CUSTOMER FALOMIND 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>8-16-17</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
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					P.1
WE UNDERSTOOD AND MET YOUR NEEDS?					P.2
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			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					TOTAL

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: _____

DATE: _____ TIME: _____

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

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			15.75	1968.75
325		2				Standard Cement	100	SKS			12.25	1225.00
284		2				Gulsoed	5	SKS			30.00	150.00
283		2				Salt	550	LBS			20.00	110.00
285		2				CFR-1	50	LBS			4.50	225.00
76		2				Procele	87	LBS			2.25	195.75
SERVICE CHARGE CMT MILEAGE CHANGE 28337 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 CIRL 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 ppq - 95 sks
		5	24			200		pump EA-2 cmt @ 15.5 ppq - 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
Total:	\$ 2,458.24
Tax:	\$ 140.23

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.

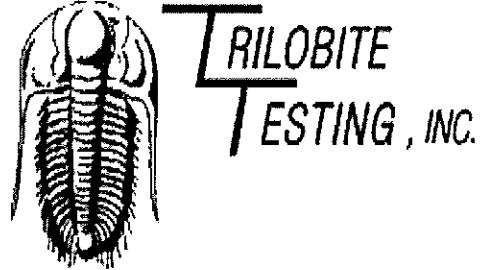
Federal Tax I.D.# 20-2886107

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			
Csg.								8 5/8		Depth		217			
Tbg. Size										Depth					
Tool										Depth					
Cement Left in Csg.								10		Shoe Joint		Cement Amount Ordered			
Meas Line								Displace		13 BCL					
EQUIPMENT															
Pumptrk		No.		Cementer		Helper		Common		120					
Bulktrk		No.		Driver		Driver		Poz. Mix		30					
Bulktrk		No.		Driver		Driver		Gel.		3					
Bulktrk		No.		Driver		Driver		Calcium		6					
JOB SERVICES & REMARKS															
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							
								FLOAT EQUIPMENT							
								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

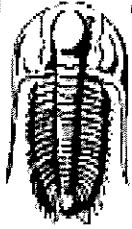
Start Date: 2017.02.11 @ 17:38:59

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

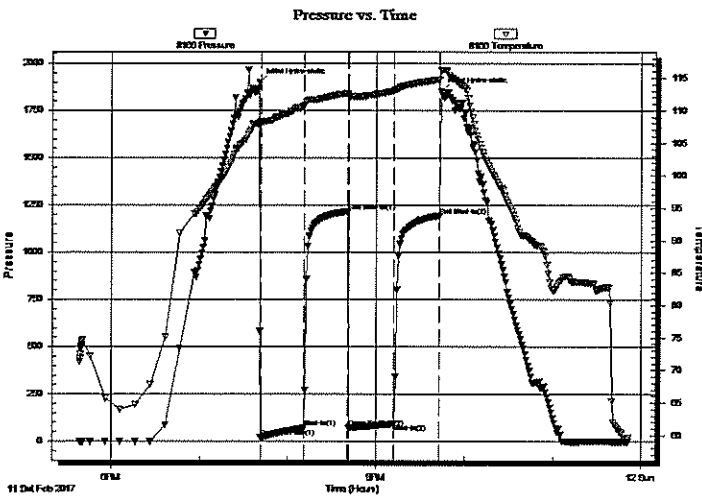
Time Off Btm: 2017.02.11 @ 21:43:59

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

IS: No return.

FF: Surface blow built to 1"

FS: No return.



PRESSURE SUMMARY

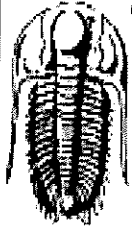
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.00	108.10	Initial Hydro-static
1	19.53	108.23	Open To Flow (1)
31	69.49	110.70	Shut-In(1)
61	1215.92	112.57	End Shut-In(1)
61	71.50	112.13	Open To Flow (2)
92	90.27	113.00	Shut-In(2)
123	1195.52	114.77	End Shut-In(2)
124	1854.00	116.17	Final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



TRILLOBITE 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)

Total Depth: 3838.00 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 @ 3819.00 ft (KB)

Start Date: 2017.02.11

End Date:

2017.02.11

Capacity: 8000.00 psig

Last Calib.: 2017.02.11

Start Time: 17:38:49

End Time:

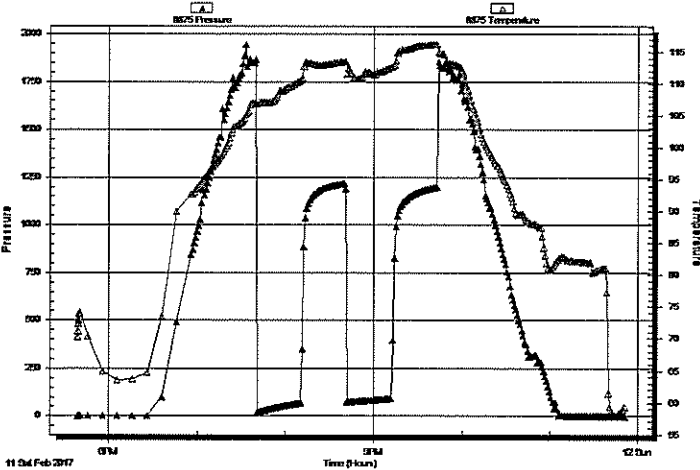
23:50:43

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 (Mc/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

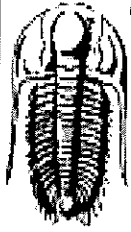
Test Start: 2017.02.11 @ 17:38:59

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
Total Tool Length:	47.00				



**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: 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 in³

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 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

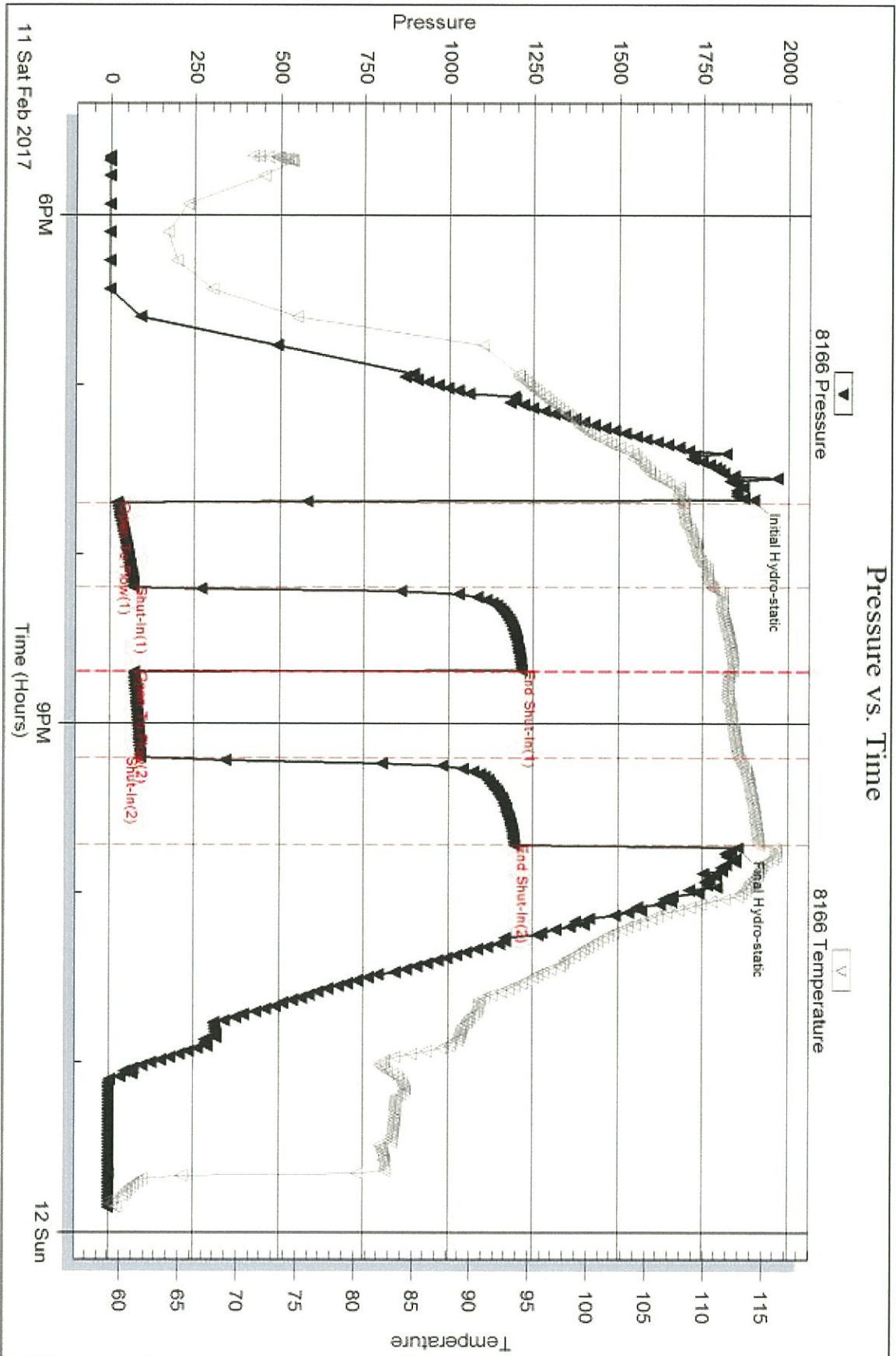
Recovery Comments: .23@50=46000

Serial #: 8166

Outside Palomino Petroleum Inc

Butterfield #1

DST Test Number: 1



Trioble Testing, Inc

Ref. No: 65659

Printed: 2017.02.16 @ 10:34:13

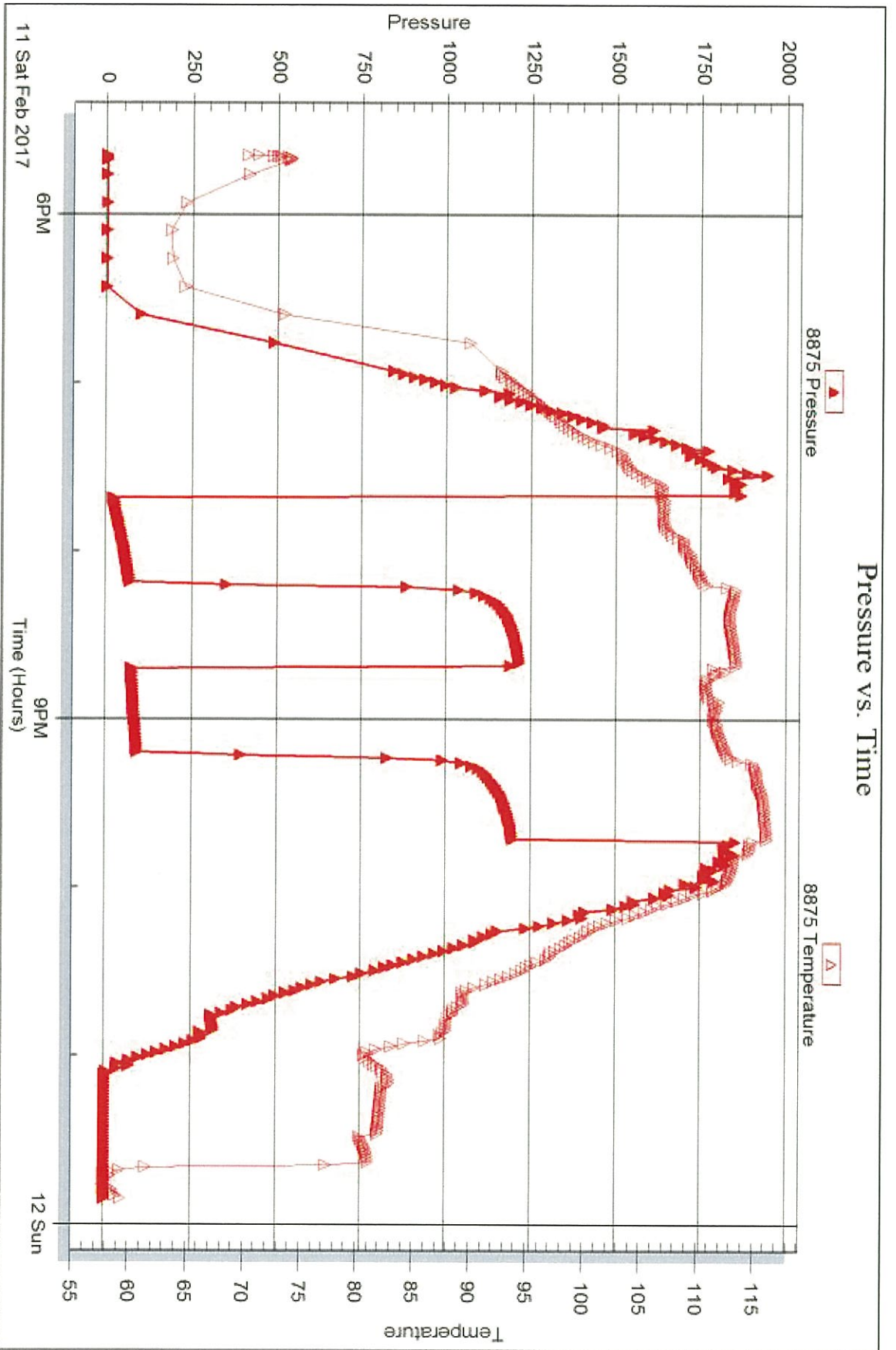
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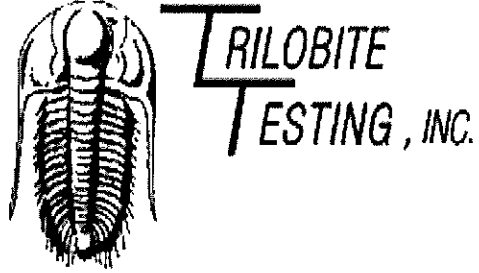
Inside

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

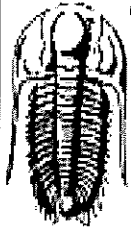
Trilobite Testing, Inc

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

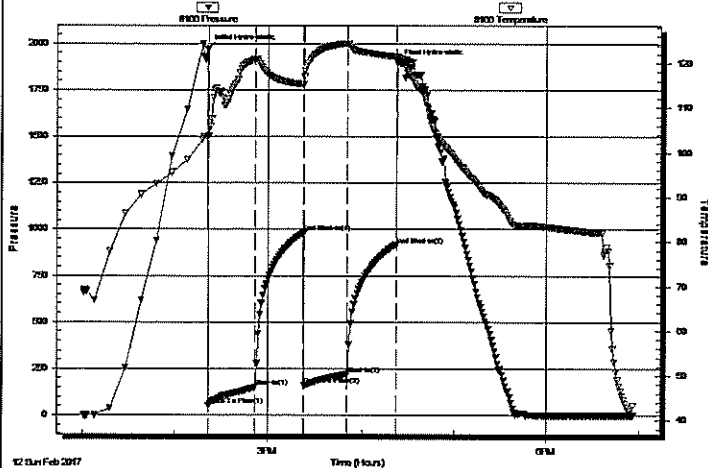
Start Time: 13:00:59 End Time: 18:55:53

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

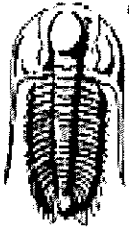
Recovery

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

4924 SE 84th St
New ton, KS 67114

ATTN: Pat Deenihan/ Nick G

S11-14S-26W Gove,KS

Butterfield #1

Job Ticket: 65660

DST#: 2

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)**

Total Depth: 3980.00 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 @ 3944.00 ft (KB)

Start Date: 2017.02.12

End Date:

2017.02.12

Capacity: 8000.00 psig

Last Calib.:

2017.02.12

Start Time: 13:00:44

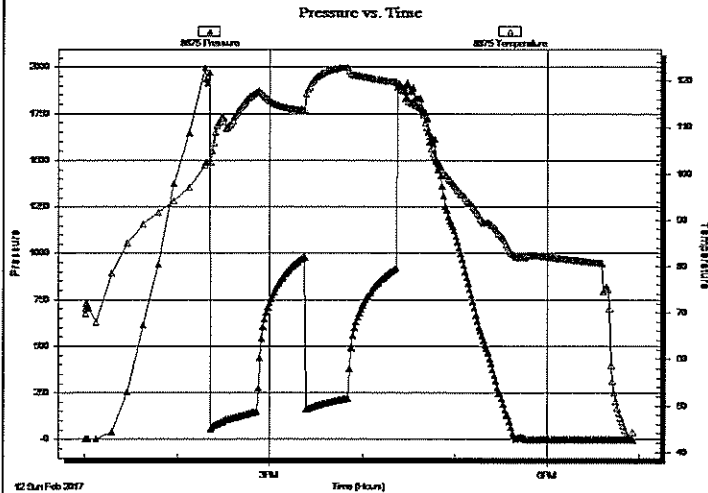
End Time:

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

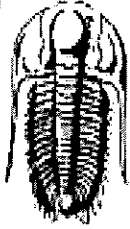
Recovery

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

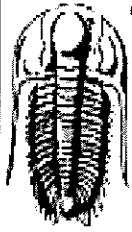
Tool Information

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 in³

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

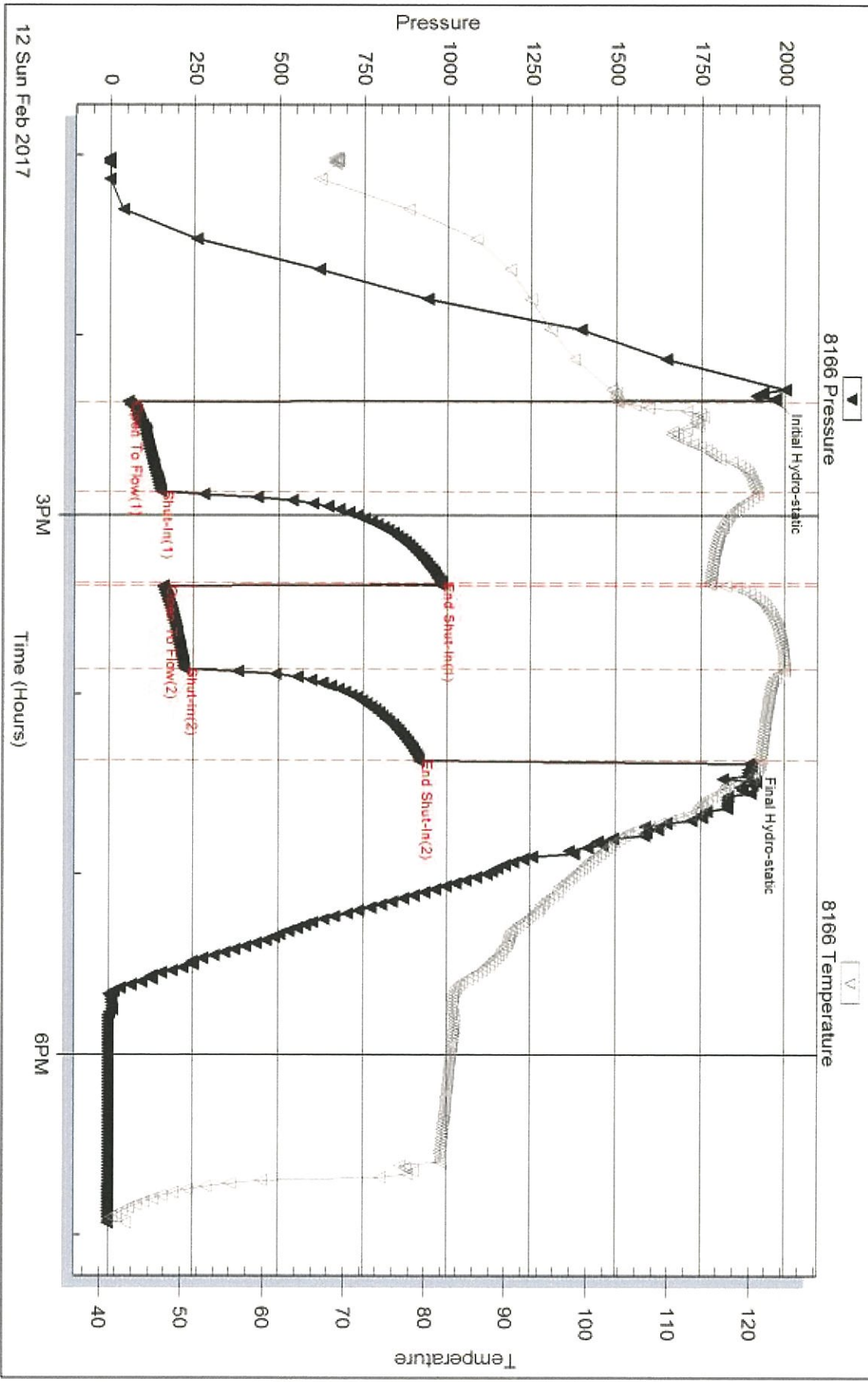
Serial #: 8166

Outside Palomino Petroleum Inc

Butterfield #1

DST Test Number: 2

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 65660

Printed: 2017.02.16 @ 10:35:52

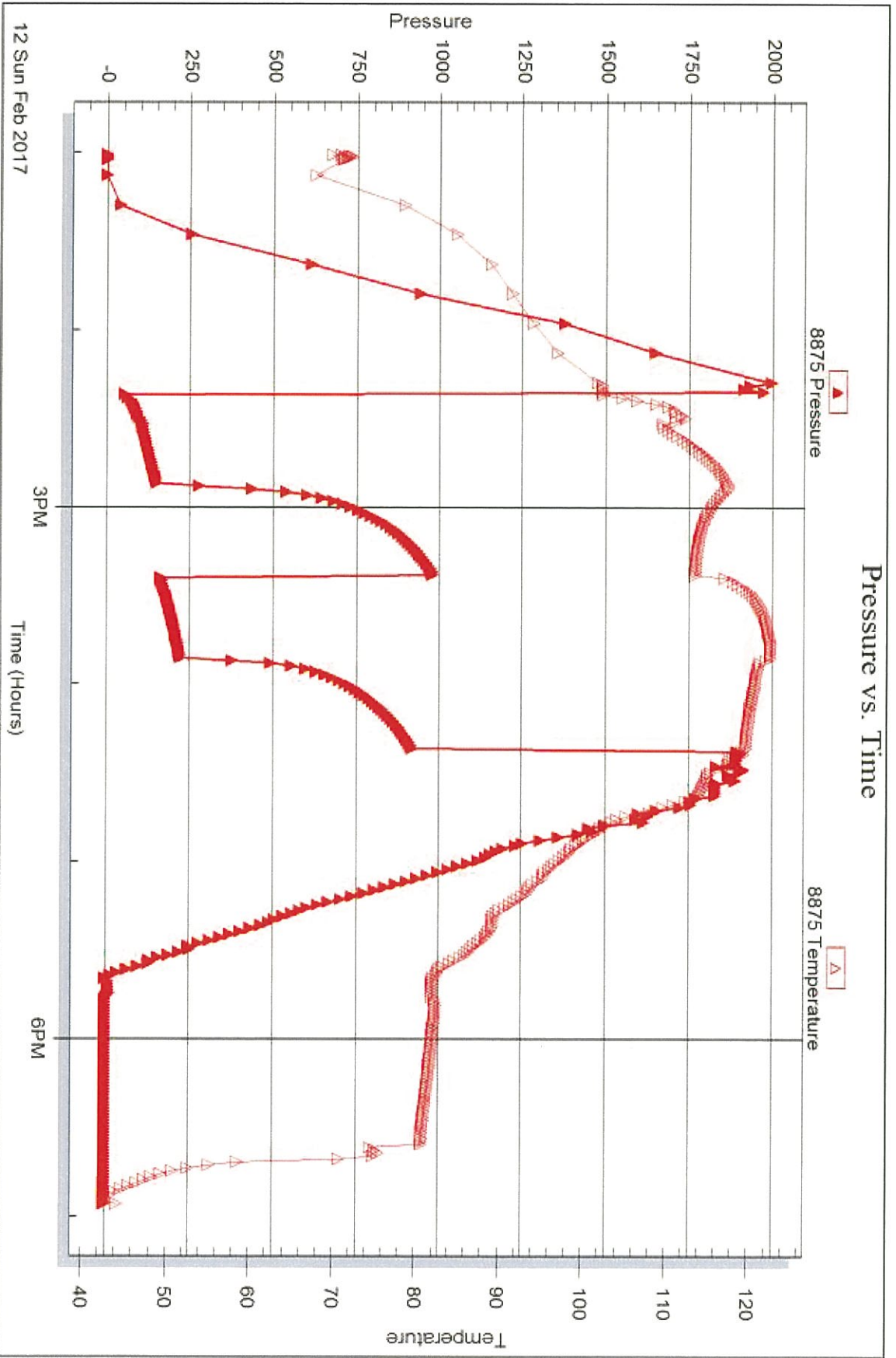
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Inside

Palomino Petroleum Inc

Butterfield #1

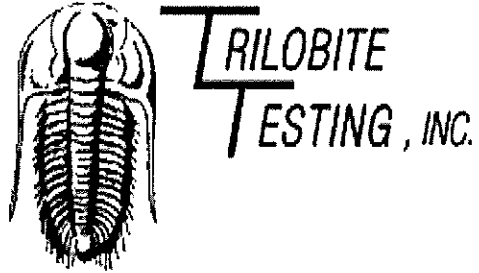
DST Test Number: 2



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



**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

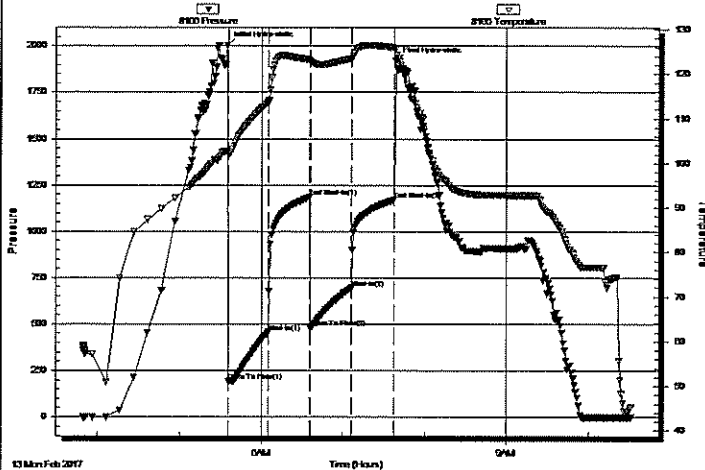
End Time: 10:31:33

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

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:

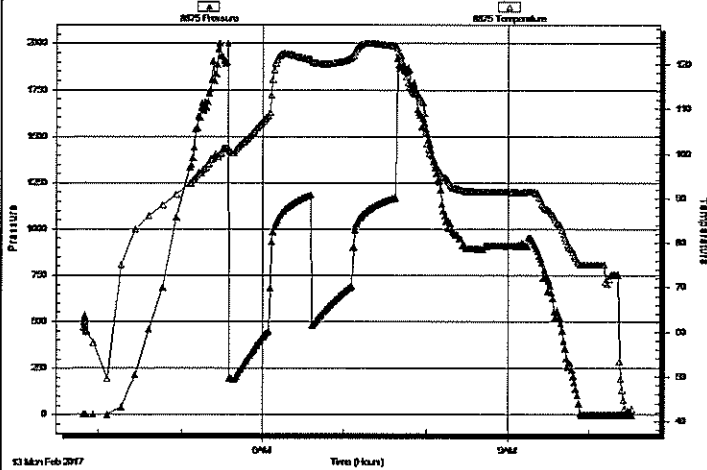
Formation: **LKC 1-J**
Deviated: **No Whipstock:** ft (KB)
Time Tool Opened: **05:35:34**
Time Test Ended: **10:31:34**
Interval: **3984.00 ft (KB) To 4028.00 ft (KB) (TVD)**
Total Depth: **4028.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom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

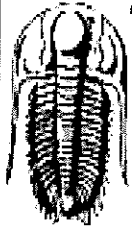
Recovery

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

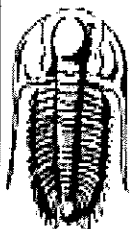
Tool Information

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: bbl		
Water Loss: 7.59 in ³	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 bbl
186.00	mcgo 10%g 70%o 20%m	1.507
1798.00		25.221

Total Length: 1984.00 ft Total Volume: 26.728 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 33@40=35

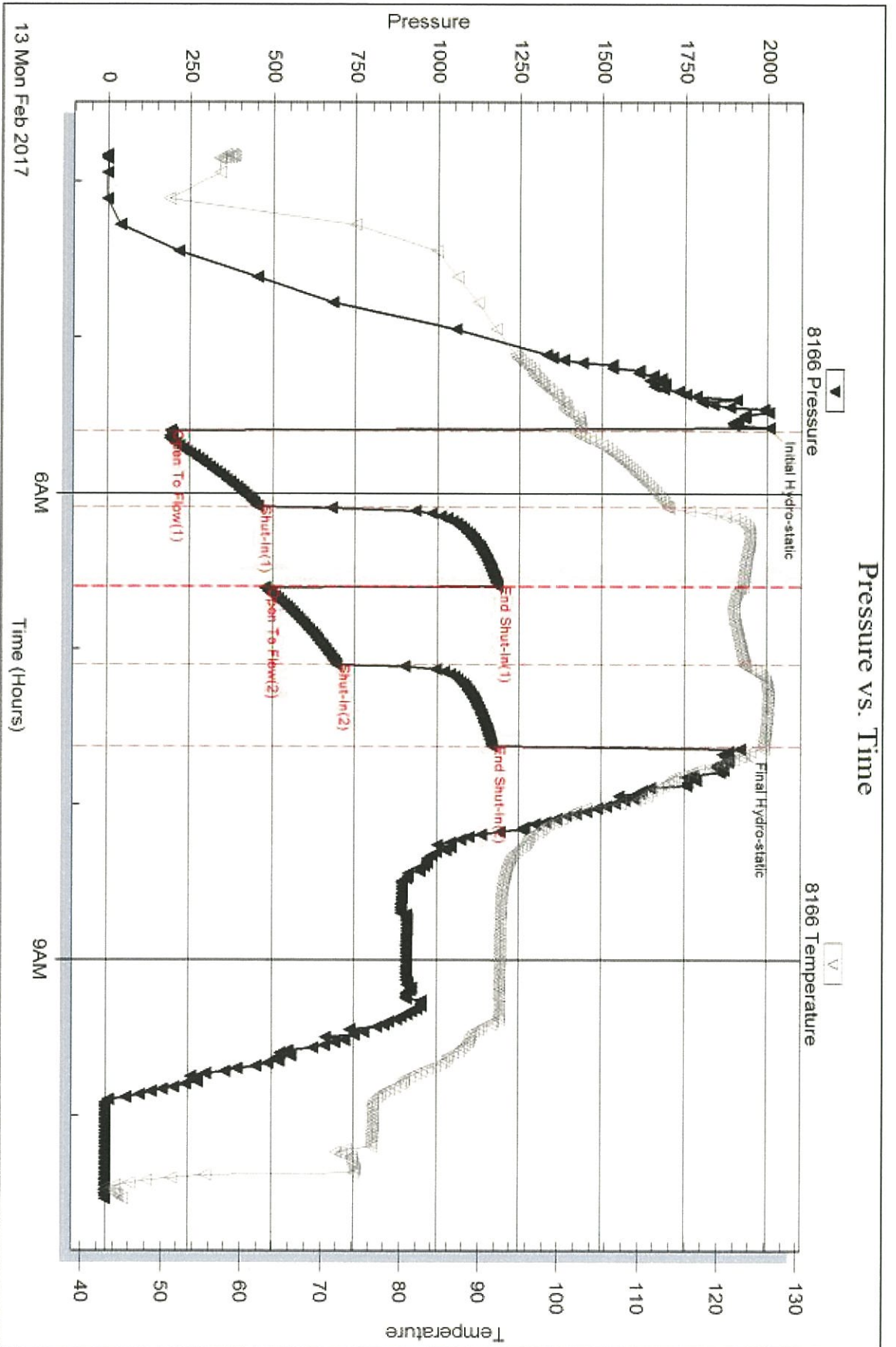
Serial #: 8166

Outside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 65661

Printed: 2017.02.16 @ 10:33:32

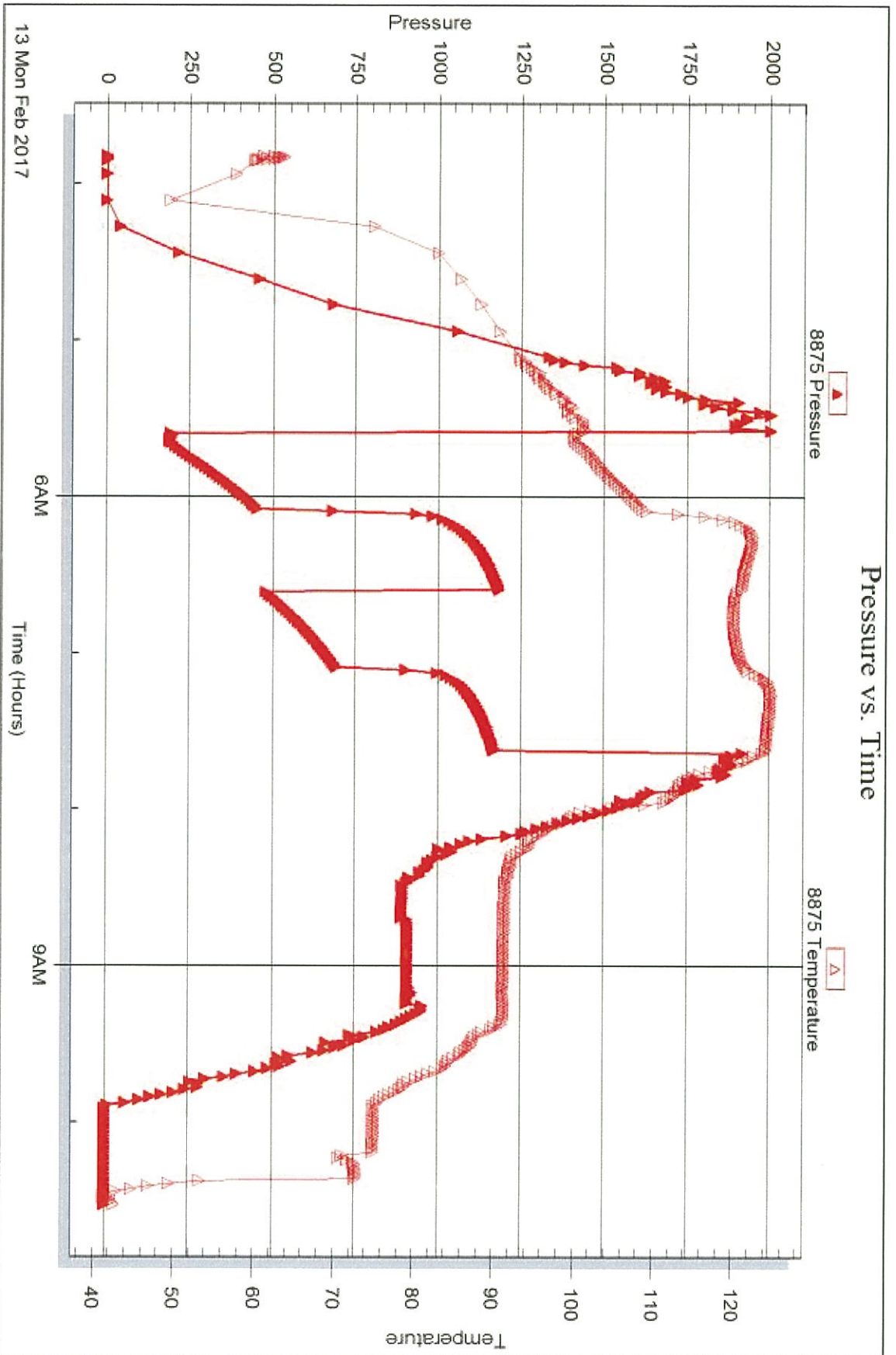
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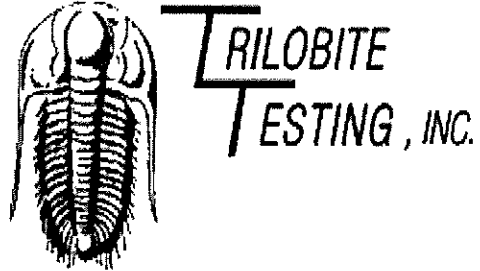
Inside

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

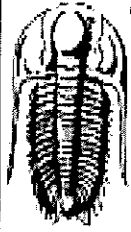
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:33:09

Palomino Petroleum Inc
S11-14S-26W Gove,KS
Butterfield #1
DST # 4
LKC K
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: 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

Start Time: 18:53:35

End Time:

00:54:59

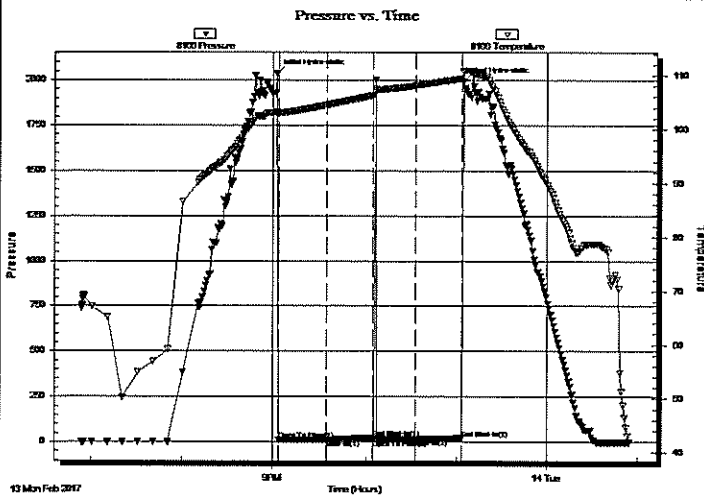
Capacity: 8000.00 psig

Last Calib.: 2017.02.14

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

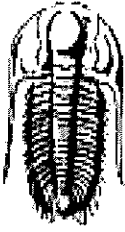
Recovery

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

Capacity: 8000.00 psig

Last Calib.: 2017.02.14

Start Time: 18:53:40

End Time:

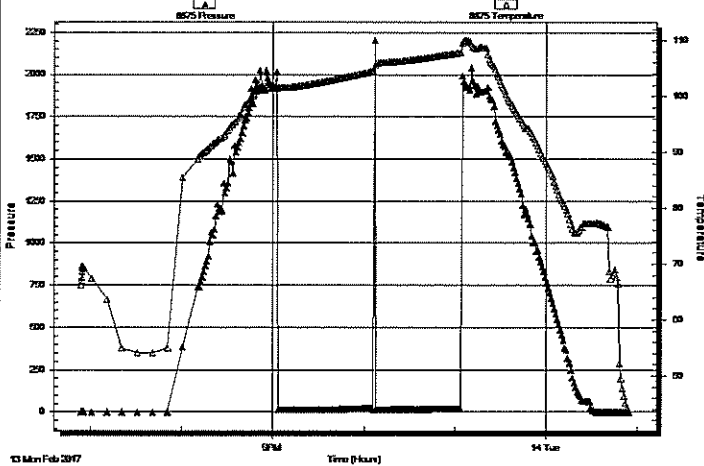
00:55:04

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

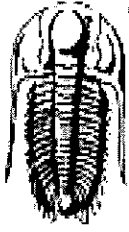
Recovery

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

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mc/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

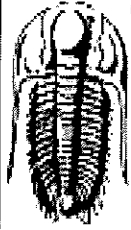
Test Start: 2017.02.13 @ 18:53:30

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
		Total Volume: 55.45 bbl		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
Total Tool Length:	46.00				



**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: 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 in³

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:

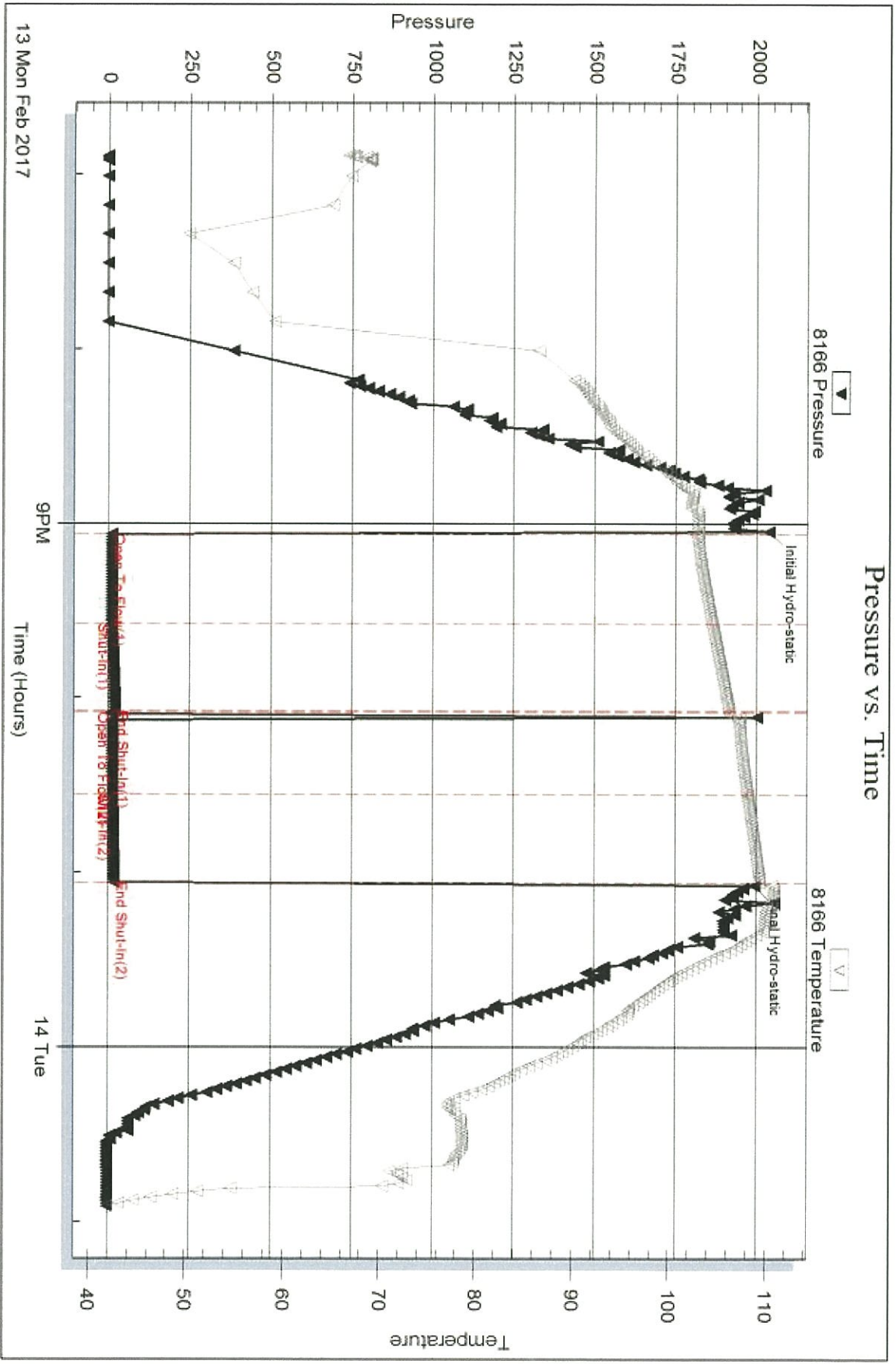
Serial #: 8166

Outside Palomiro Petroleum Inc

Butterfield #1

DST Test Number: 4

Pressure vs. Time



Tribble Testing, Inc

Ref. No: 65662

Printed: 2017.02.16 @ 10:35:09

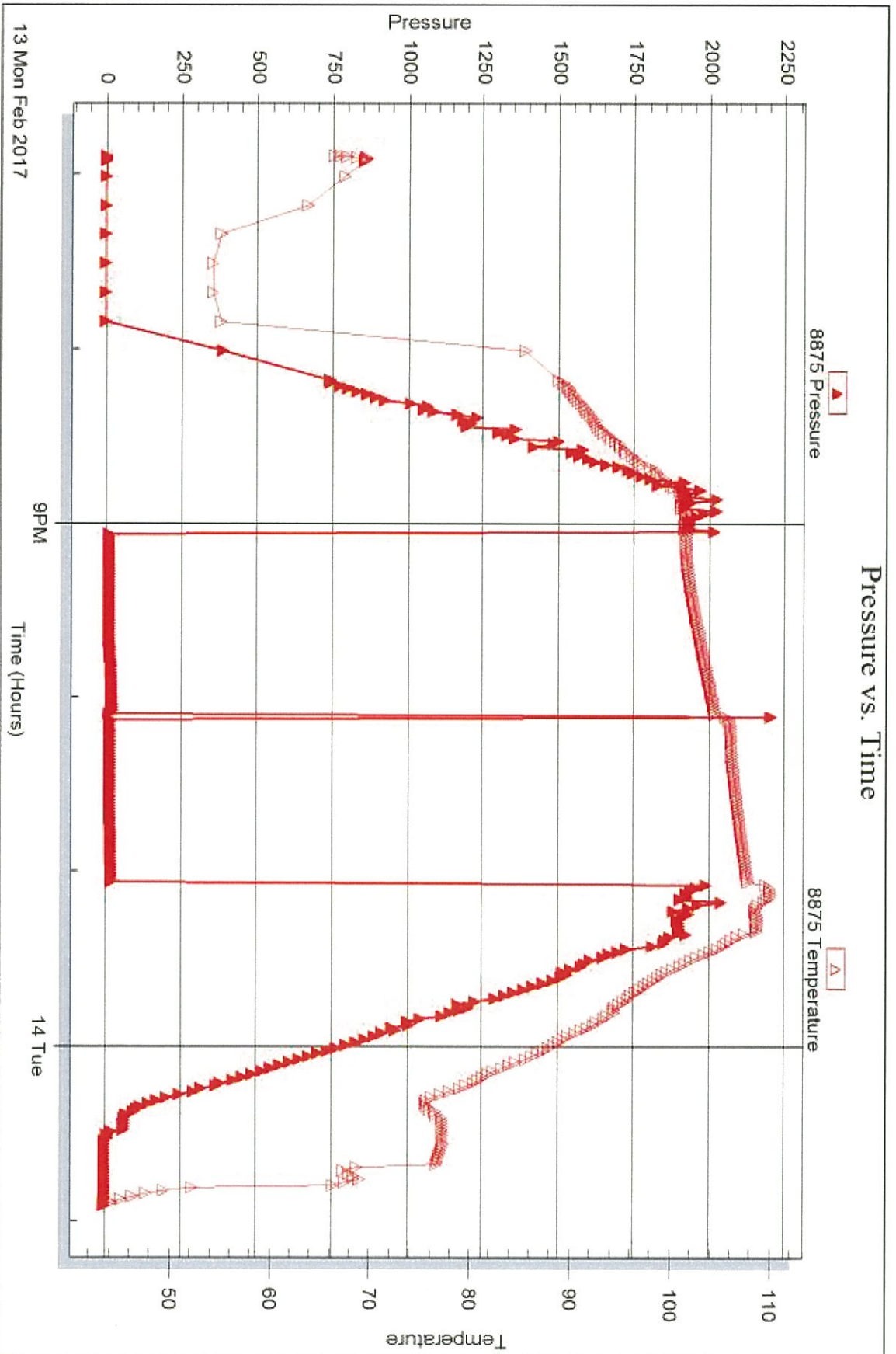
Serial #: 8875

Inside

Palomino Petroleum Inc

Butterfield #1

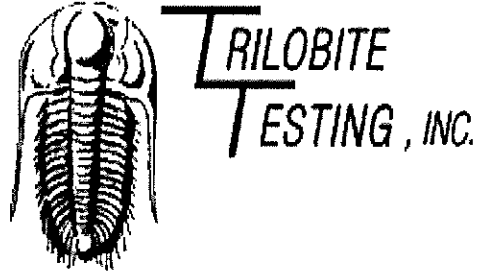
DST Test Number: 4



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

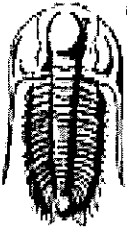
Job Ticket #: 63504 DST #: 5

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)

Start Date: 2017.02.14

End Date:

2017.02.14

Capacity: 8000.00 psig

Last Calib.:

2017.02.14

Start Time: 09:33:05

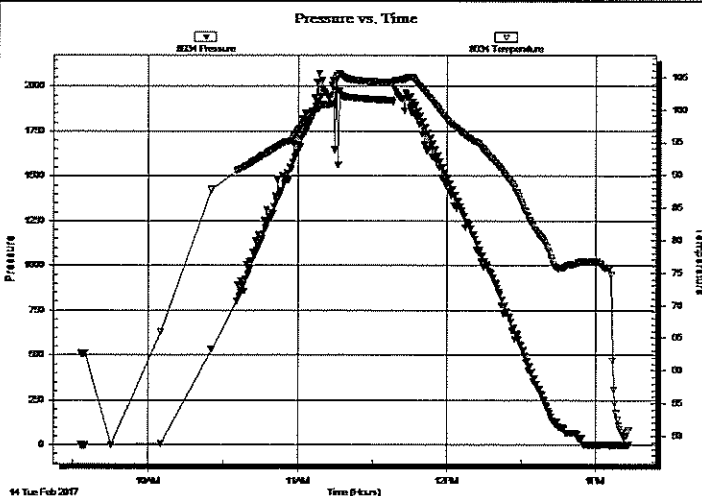
End Time:

13:13:30

Time On Btm:

Time Off Btm:

TEST COMMENT: Packer Failure



PRESSURE SUMMARY

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

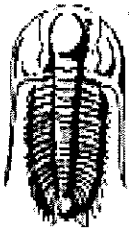
Recovery

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

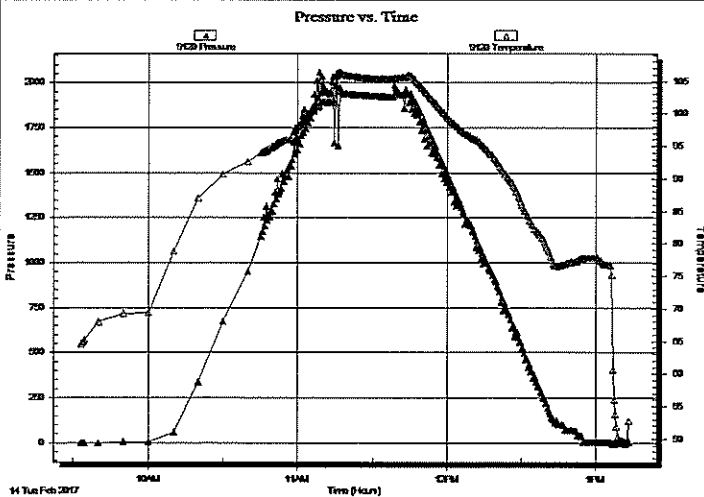
GENERAL INFORMATION:

Formation:	LKC L	Test Type:	Conventional Bottom Hole (Reset)
Deviated:	No Whipstock:	ft (KB)	
Time Tool Opened:		Tester:	Spencer J. Staab
Time Test Ended:	13:13:30	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

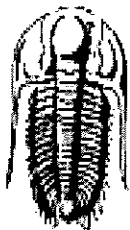
Recovery

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

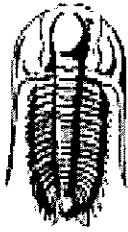
Test Start: 2017.02.14 @ 09:33:00

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
Total Tool Length:	50.00				



**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: 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 in³

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:

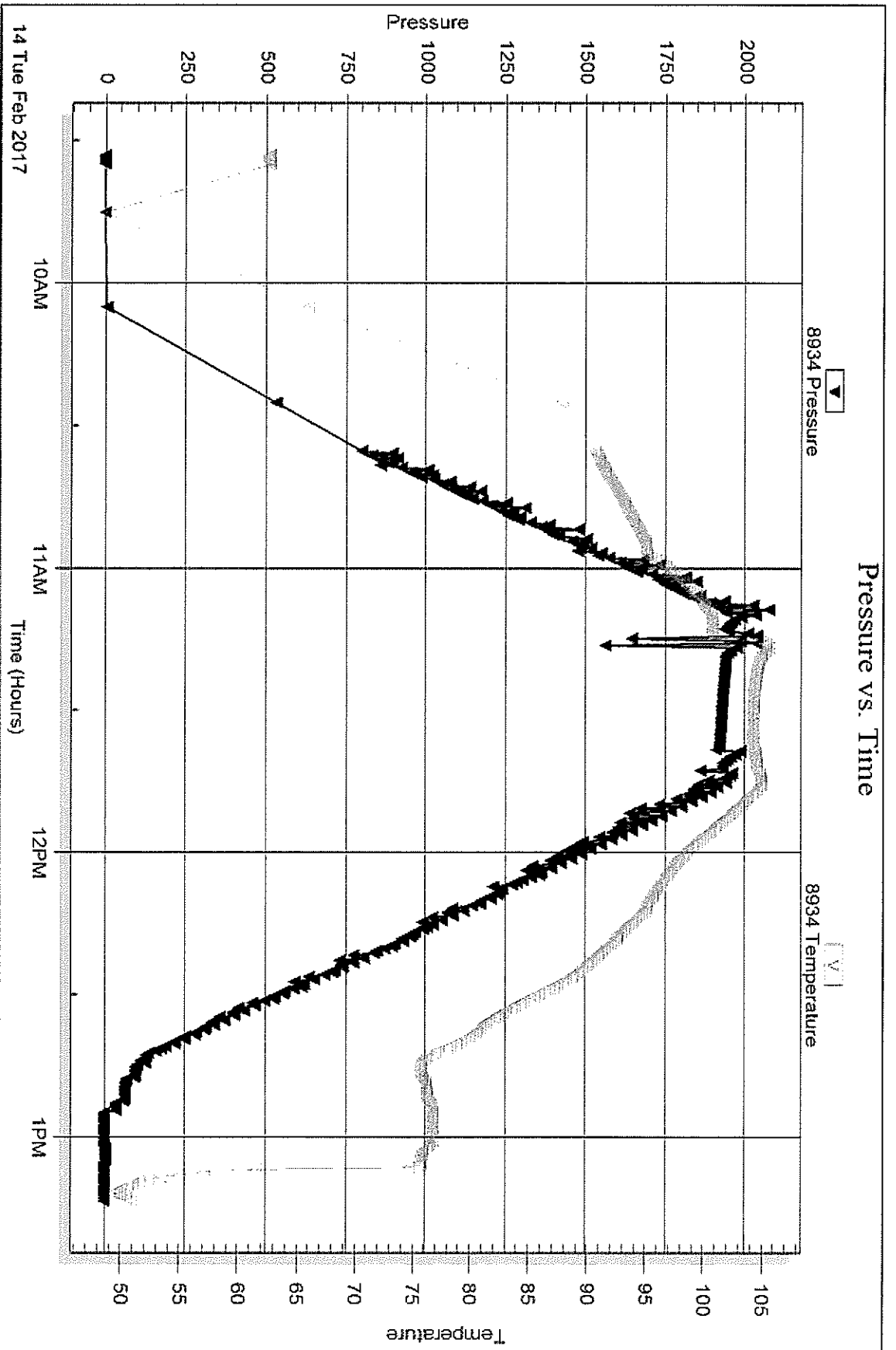
Recovery Comments:

Serial #: 8934

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 5



Tribble Testing, Inc

Ref. No: 63504

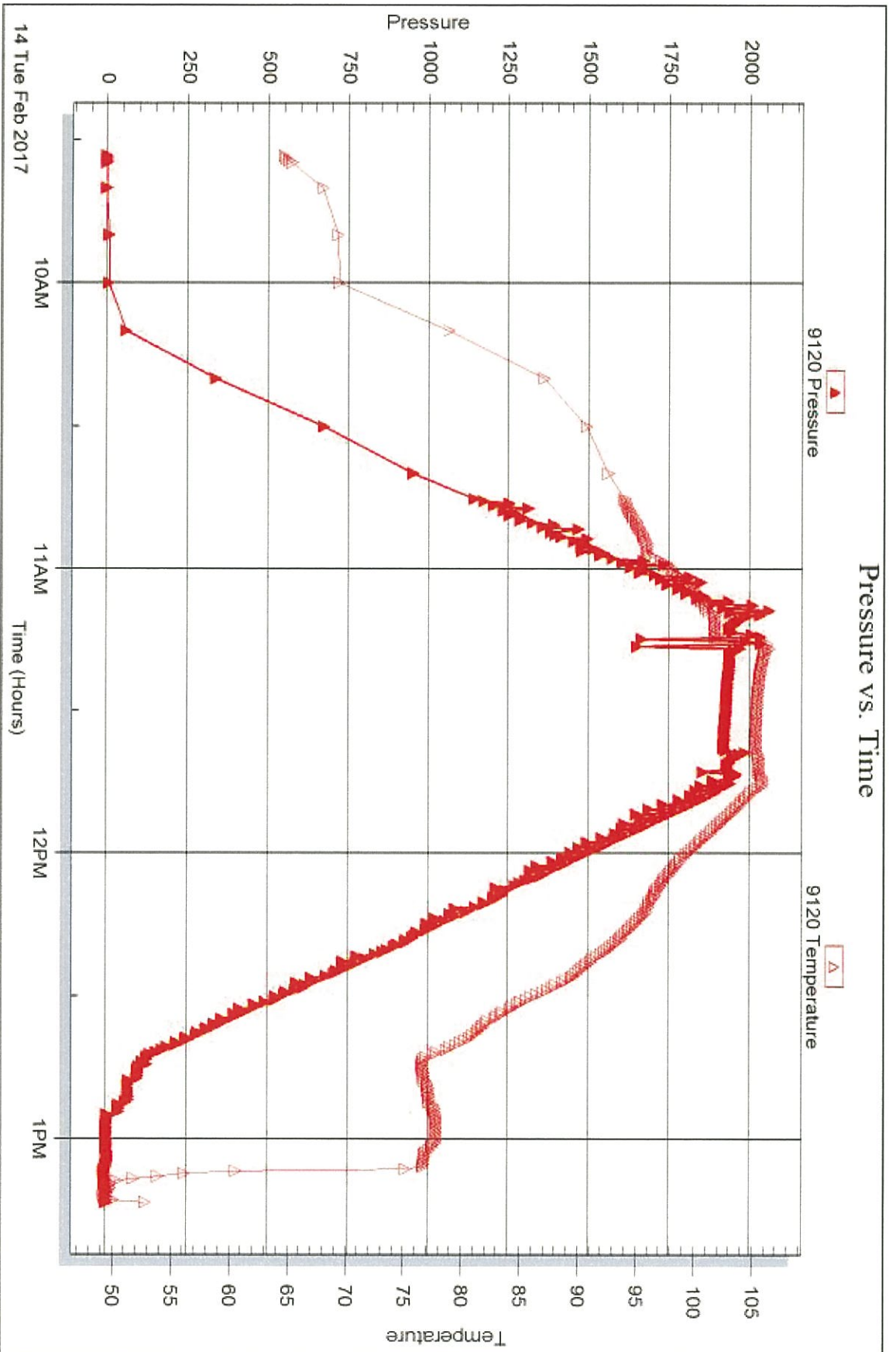
Printed 2017 02:16 @ 10:32:41

Serial #: 9120

Palomino Petroleum Inc

Butterfield #1

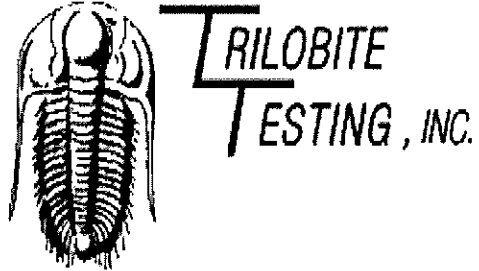
DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 63504

Printed: 2017.02.16 @ 10:32:41



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

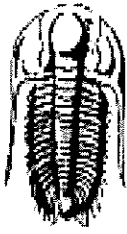
Job Ticket #: 63505 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.02.16 @ 10:32:13



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

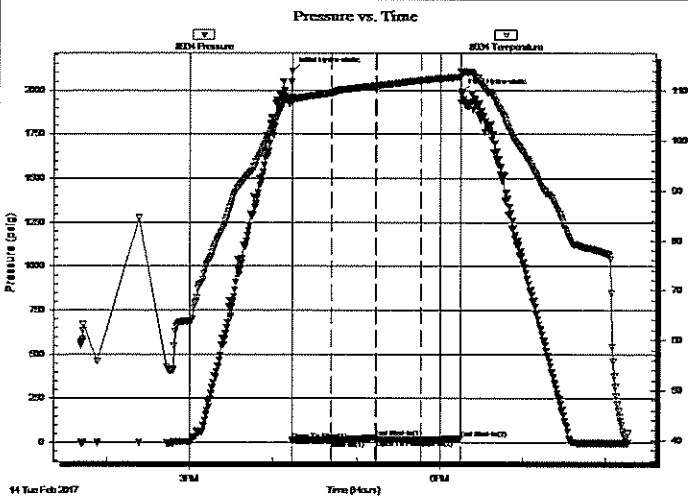
Time Off Btm: 2017.02.14 @ 18:15:15

TEST COMMENT: 30-IF-Very Weak Blow ; Built from a surface blow to a 1/4" blow

30-ISI-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

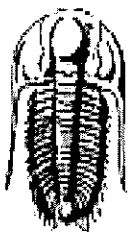
Recovery

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)

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 #: 9120

Inside

Press@RunDepth: psig @ 4033.00 ft (KB)

Start Date: 2017.02.14

End Date: 2017.02.14

Capacity: 8000.00 psig

Last Calib.: 2017.02.14

Start Time: 13:41:15

End Time: 20:16:15

Time On Btm:

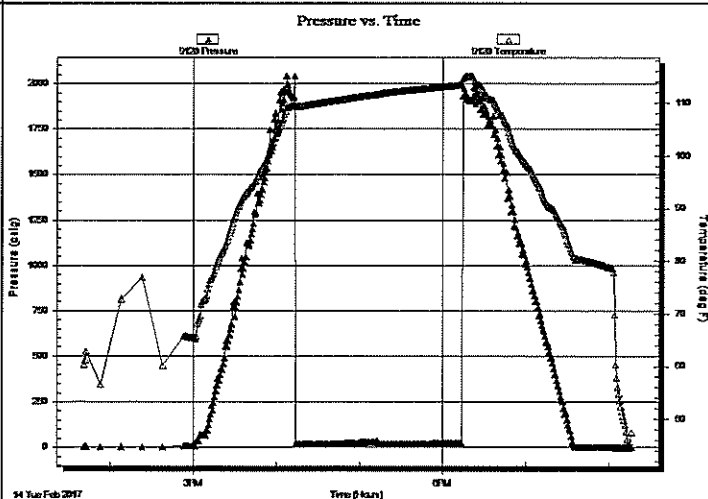
Time Off Btm:

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

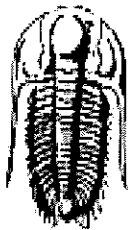
Recovery

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

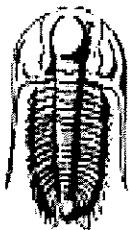
Tool Information

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 in³

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:

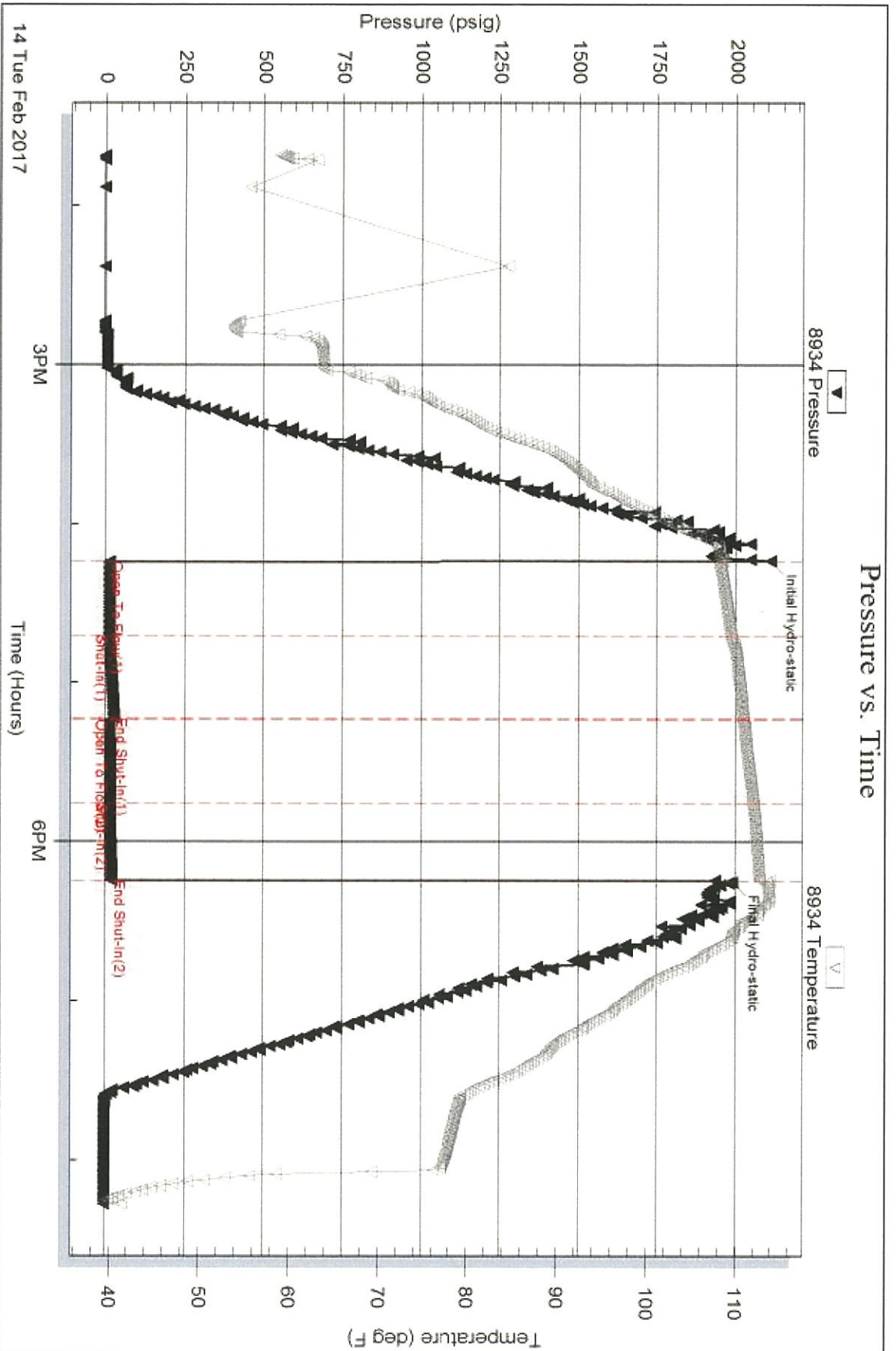
Serial #: 8934

Outside

Palomino Petroleum Inc

Butterfield #1

DST Test Number: 6



Tribble Testing, Inc

Ref. No: 63505

Printed: 2017.02.16 @ 10:32:13

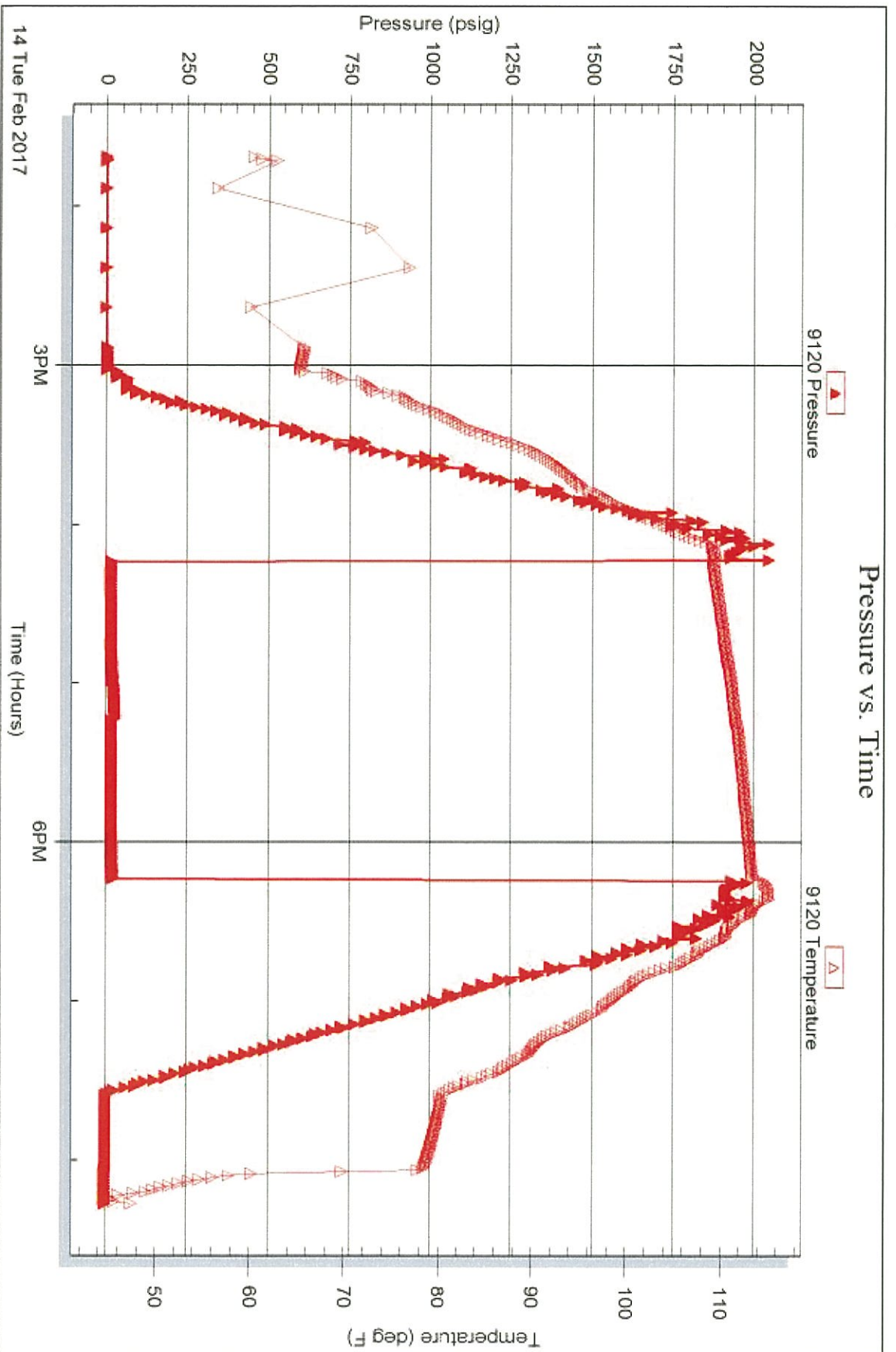
Serial #: 9120

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**

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 NIC 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 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 1474
 Accessibility MP/DST Disc't
 Sub Total 1474

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>90-100</u>	<u>5</u>	<u>5</u>	<u>20</u>	<u>70</u>
<u>124</u>	<u>60-70</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>20</u>
<u>124</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
<u>102</u>	<u>GIP</u>				
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 _____
 Sub Total 0
 Total 1549
 MP/DST Disc't _____

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

Sub Total 1549

Approved By Patrick Deenihan Our Representative _____

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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.

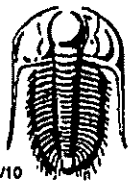
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

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 _____

Initial Open 30 Shale Packer 250 Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1499
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1499

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.



TRIBOLITE 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. Howe 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,
 (G) Final Shut-In — Sampler — tried to set twice;
 (H) Final Hydrostatic — Straddle — came out of hole

Ruined Shale Packer —
 Ruined Packer —

Initial Open 30 P Extra Packer —
 Initial Shut-In Packer Extra Recorder —

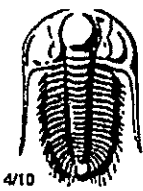
Final Flow Failure Day Standby — Sub Total 0

Final Shut-In — Accessibility — Total 1299

Sub Total 1299 MP/DST Disc't —

Approved By — Our Representative Spencer J. Stahl Thank-you!
 Tribolite 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 _____

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

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