



PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 131302

Invoice Date: May 25, 2012

Page: 1

RECEIVED  
JUN 02 2012



Bill To:
Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Palo	Arlene #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Great Bend	May 25, 2012	6/24/12

Quantity	Item	Description	Unit Price	Amount
138.00	MAT	Class A Common	16.25	2,242.50
92.00	MAT	Pozmix	8.50	782.00
8.00	MAT	Gel	21.25	170.00
57.00	MAT	FloSeal	2.70	153.90
247.00	SER	Handling	2.10	518.70
35.00	SER	Ton Miles	24.25	848.82
1.00	SER	Rotary Plug	1,250.00	1,250.00
35.00	SER	Heavy Vehicle Mileage	7.00	245.00
35.00	SER	Light Vehicle Mileage	4.00	140.00
1.00	EQUIP OPER	Dustin Chambers		
1.00	EQUIP OPER	Jonathon Ploutz		
1.00	OPER ASSIST	Kevin Weighous		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1587.73

ONLY IF PAID ON OR BEFORE

Jun 19, 2012

Subtotal	6,350.92
Sales Tax	400.11
Total Invoice Amount	6,751.03
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,751.03</b>

# ALLIED OIL & GAS SERVICE, LLC 053621

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Great Bend KS

DATE <u>5/25/12</u>	SEC. <u>16</u>	TWP. <u>09S</u>	RANGE <u>19W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:00</u>	JOB FINISH <u>4:30</u>
LEASE <u>W Adams</u>		WELL # <u>#1</u>		LOCATION <u>Zurich 2 W. 3/4 W N onto</u>		COUNTY <u>ROCKS</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Mallard Drilling Rig #1

TYPE OF JOB Rotary Plug

HOLE SIZE 12 1/4 T.D.

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 3524

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. All

PERFS.

DISPLACEMENT Fresh Water

EQUIPMENT

PUMP TRUCK CEMENTER Dustin L.

# 224 HELPER Jon P

BULK TRUCK

# 378 DRIVER Kevin W.

BULK TRUCK

# DRIVER

OWNER

CEMENT

AMOUNT ORDERED 230 SK 60% Class A

40% Poz 4% Gel 1/4 Floccul

COMMON <u>138</u>	@ <u>16.25</u>	<u>2,242.50</u>
POZMIX <u>92</u>	@ <u>8.50</u>	<u>782.00</u>
GEL <u>8</u>	@ <u>21.25</u>	<u>170.00</u>
CHLORIDE	@	
ASC	@	
<u>210 S&amp;S</u>	<u>57</u> @	<u>153.70</u>
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>247</u>	@ <u>2.10</u>	<u>518.70</u>
MILEAGE <u>10.32 x 35</u>	<u>2.35</u>	<u>848.70</u>
TOTAL		<u>4,715.92</u>

REMARKS:

Fill Hole with Rig mud

1st - 3524 - 25 SKs

2nd - 1480 - 25 SK

3rd - 820 - 100 SK

4th - 2160 - 40 SK

5th - 40 - 10 SK

Rotable - 30 SK

Plug down 4500 pm

CHARGE TO: Dalmino Petroleum

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>3524</u>		
PUMP TRUCK CHARGE	<u>1250.00</u>	
EXTRA FOOTAGE	@	
MILEAGE <u>HUM 35</u>	@ <u>7.00</u>	<u>245.00</u>
MANIFOLD	@	
<u>HUM 35</u>	@ <u>4.00</u>	<u>140.00</u>
	@	
TOTAL		<u>1635.00</u>

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL		_____

To: Allied Oil & Gas Services, LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME D. Susan McDonald

SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 6,350.92

DISCOUNT 1,587.73

IF PAID IN 30 DAYS

4,763.19

Thank You !!!



# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 131186

Voice: (817) 546-7282  
Fax: (817) 246-3361

Invoice Date: May 18, 2012

Page: 1

RECEIVED  
MAY 25 2012



<b>Bill To:</b>
Palomino Petroleum, Inc. 4924 SE 84th St. Newton, KS 67114-8827

Customer ID	Well Name# or Customer P.O.	Payment Terms	
Palo	Arlene #1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	May 18, 2012	6/17/12

Quantity	Item	Description	Unit Price	Amount
150.00	MAT	Class A Common	16.25	2,437.50
3.00	MAT	Gel	21.25	63.75
5.00	MAT	Chloride	58.20	291.00
162.90	SER	Handling	2.10	342.09
35.00	SER	Ton Miles	17.39	608.65
1.00	SER	Surface	1,125.00	1,125.00
35.00	SER	Heavy Vehicle Mileage	7.00	245.00
35.00	SER	Light Vehicle Mileage	4.00	140.00
1.00	EQUIP OPER	Greg Redetzke		
1.00	EQUIP OPER	Kevin Eddy		
1.00	OPER ASSIST	Kevin Weighous		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1313.24

ONLY IF PAID ON OR BEFORE  
Jun 12, 2012

Subtotal	5,252.99
Sales Tax	175.91
Total Invoice Amount	5,428.90
Payment/Credit Applied	
<b>TOTAL</b>	<b>5,428.90</b>





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47110

**DST#: 1**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 00:05:30

## GENERAL INFORMATION:

Formation: **Toronto-KC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:06:30

Time Test Ended: 07:55:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: **3236.00 ft (KB) To 3300.00 ft (KB) (TVD)**

Total Depth: 3300.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2074.00 ft (KB)

2069.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 50.91 psig @ 3237.00 ft (KB)

Start Date: 2012.05.22

End Date:

2012.05.22

Capacity: 8000.00 psig

Last Calib.: 2012.05.22

Start Time: 00:05:35

End Time:

07:55:29

Time On Btm: 2012.05.22 @ 04:05:00

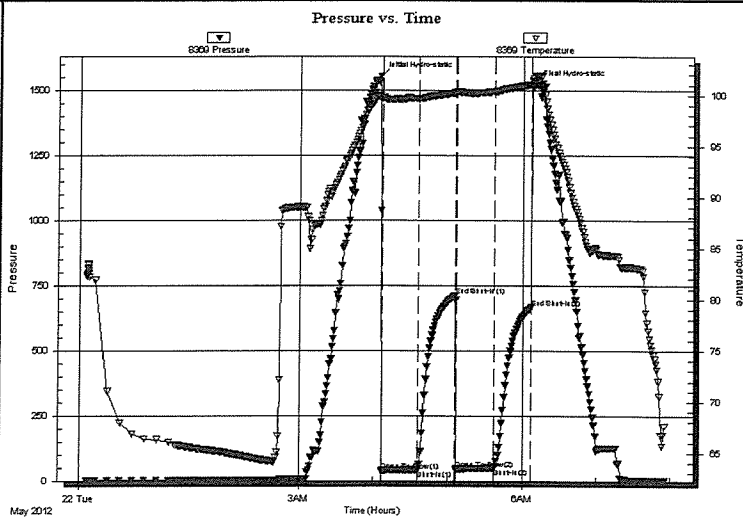
Time Off Btm: 2012.05.22 @ 06:10:30

TEST COMMENT: IF-Very weak surface blow

ISI-No blow

FF-No blow

FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1556.10	99.97	Initial Hydro-static
2	38.62	99.74	Open To Flow (1)
31	43.20	99.64	Shut-In(1)
61	712.42	100.24	End Shut-In(1)
62	46.51	100.31	Open To Flow (2)
92	50.91	100.38	Shut-In(2)
122	667.17	101.06	End Shut-In(2)
126	1525.67	101.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	VSOCM 5%O 95%M	0.15
35.00	Oil spotted mud	0.17

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47110

**DST#: 1**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 00:05:30

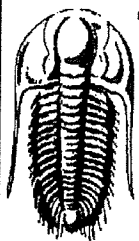
### Tool Information

Drill Pipe:	Length: 2980.00 ft	Diameter: 3.80 inches	Volume: 41.80 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose:	70000.00 lb
			Total Volume: - bbl	Tool Chased	4.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	41000.00 lb
Depth to Top Packer:	3236.00 ft			Final	41000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	64.00 ft				
Tool Length:	85.00 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			3216.00	
Shut In Tool	5.00			3221.00	
Hydraulic tool	5.00			3226.00	
Packer	5.00			3231.00	21.00 Bottom Of Top Packer
Packer	5.00			3236.00	
Stubb	1.00			3237.00	
Recorder	0.00	8369	Inside	3237.00	
Recorder	0.00	8319	Outside	3237.00	
Perforations	5.00			3242.00	
Change Over Sub	1.00			3243.00	
Drill Pipe	31.00			3274.00	
Change Over Sub	1.00			3275.00	
Perforations	22.00			3297.00	
Bullnose	3.00			3300.00	64.00 Bottom Packers & Anchor

**Total Tool Length: 85.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47110

**DST#: 1**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 00:05:30

## 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: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1900.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	VSOCM 5%O 95%M	0.148
35.00	Oil spotted mud	0.172

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



Serial #: 8369

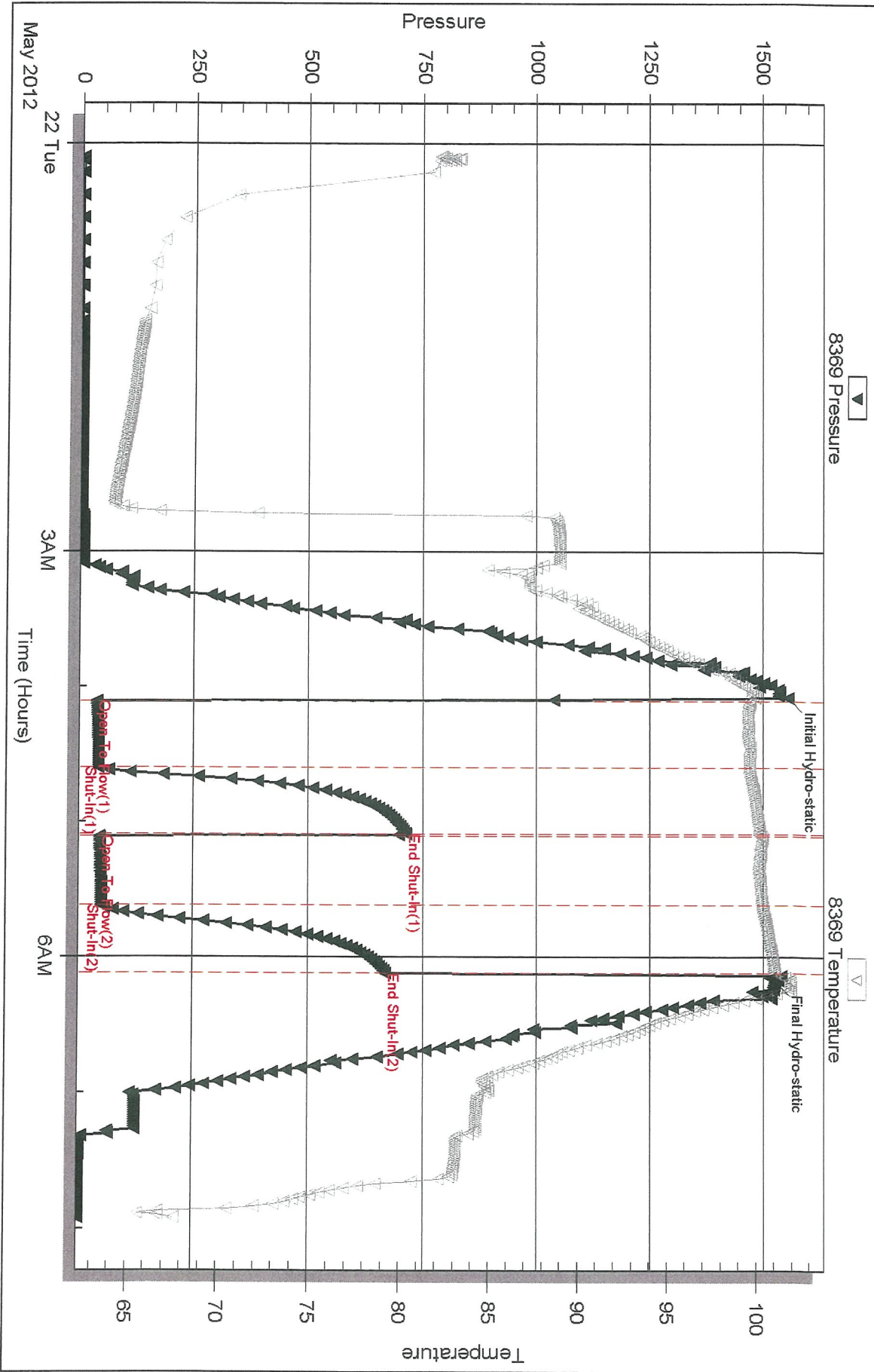
Inside

Palomiro Petroleum, Inc.

Arlene #1

DST Test Number: 1

### Pressure vs. Time



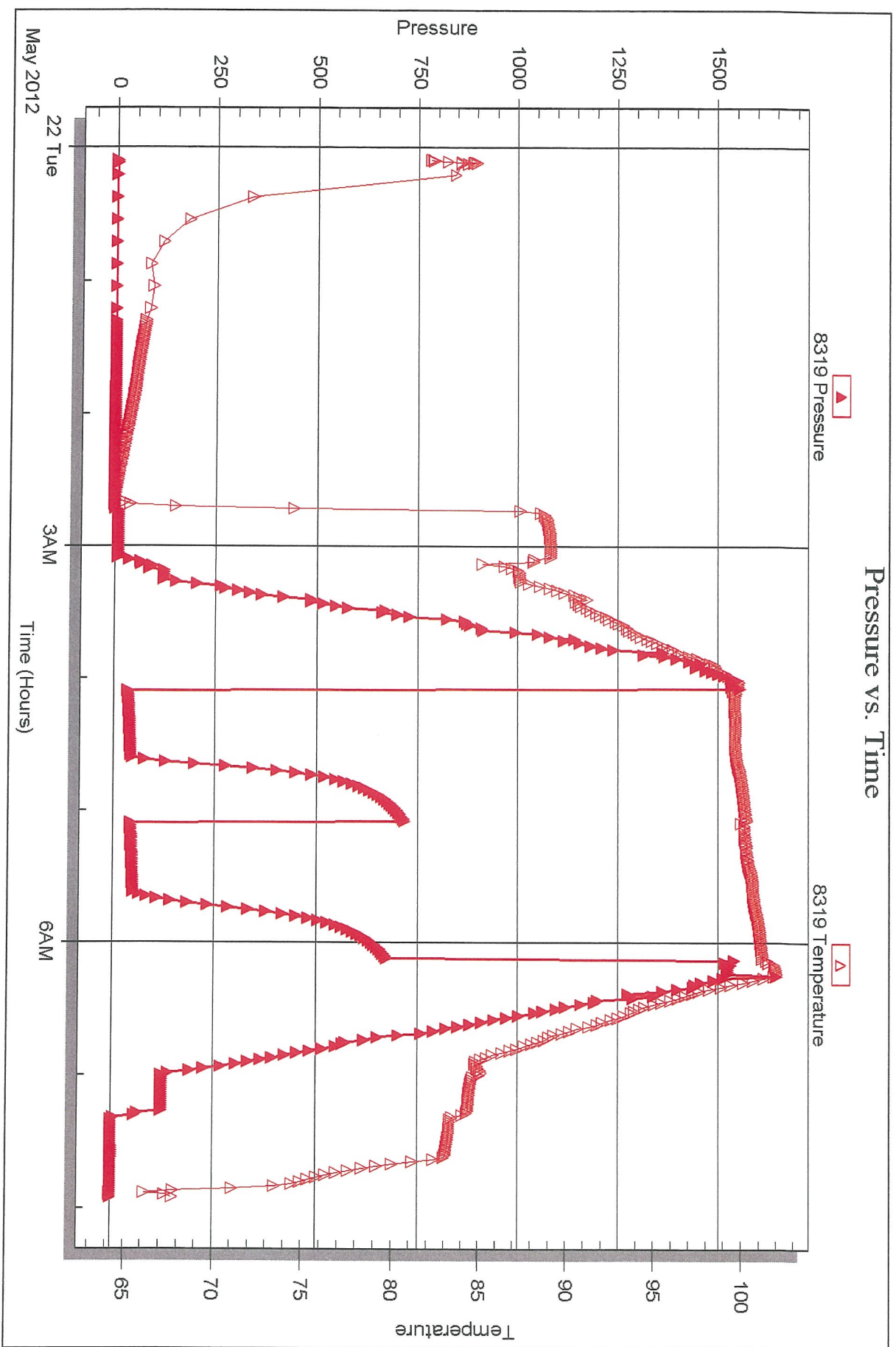
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Arlene #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 477110

Printed: 2012.05.25 @ 09:42:44



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47110

4/10

Well Name & No. <u>Arlene #1</u>	Test No. <u>1</u>	Date <u>5/22/12</u>
Company <u>Palomina Petroleum, Inc.</u>	Elevation <u>2074</u>	KB <u>2069</u> GL
Address <u>4924 SE 84th ST Newton KS 67114</u>		
Co. Rep/Geo. <u>Ken Wallace</u>	Rig <u>Mallard</u>	
Location: Sec. <u>16</u> Twp. <u>9</u> Rge. <u>19</u>	Co. <u>Rooks</u>	State <u>KS</u>

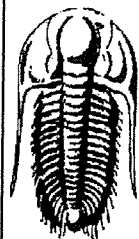
Interval Tested <u>3236 - 3300</u>	Zone Tested <u>Toronto - KCA</u>	
Anchor Length <u>64</u>	Drill Pipe Run <u>2980</u>	Mud Wt. <u>8.6</u>
Top Packer Depth <u>3231</u>	Drill Collars Run <u>241</u>	Vis <u>50</u>
Bottom Packer Depth <u>3236</u>	Wt. Pipe Run <u>—</u>	WL <u>6.8</u>
Total Depth <u>3300</u>	Chlorides <u>1900</u> ppm System	LCM <u>1#</u>
Blow Description <u>IF - Very weak surface blow</u> <u>FSI - No blow</u> <u>EF - N blow</u> <u>FSI IV blow</u>		

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>Oil spotted mud</u>				
<u>30</u>	<u>VSOCN</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>65</u>	BHT <u>101</u>	Gravity	API RW	@	F Chlorides	ppm
(A) Initial Hydrostatic <u>1,556</u>	<u>39</u>	<input checked="" type="checkbox"/> Test	<u>1150</u>		T-On Location	<u>23:40</u>
(B) First Initial Flow	<u>43</u>	<input type="checkbox"/> Jars			T-Started	<u>00:05</u>
(C) First Final Flow	<u>712</u>	<input type="checkbox"/> Safety Joint			T Open	<u>4:05</u>
(D) Initial Shut-In	<u>47</u>	<input type="checkbox"/> Circ Sub			T Pulled	<u>6:05</u>
(E) Second Initial Flow	<u>51</u>	<input type="checkbox"/> Hourly Standby			T Out	<u>7:55</u>
(F) Second Final Flow	<u>667</u>	<input checked="" type="checkbox"/> Mileage <u>36.2</u>	<u>111.60</u>		Comments	
(G) Final Shut-In	<u>1,526</u>	<input type="checkbox"/> Sampler			<input type="checkbox"/> Ruined Shale Packer	
(H) Final Hydrostatic		<input type="checkbox"/> Straddle			<input type="checkbox"/> Ruined Packer	
Initial Open <u>30</u>		<input type="checkbox"/> Shale Packer			<input type="checkbox"/> Extra Copies	
Initial Shut-In <u>30</u>		<input type="checkbox"/> Extra Packer			Sub Total	<u>0</u>
Final Flow <u>30</u>		<input type="checkbox"/> Extra Recorder			Total	<u>1261.60</u>
Final Shut-In <u>30</u>		<input type="checkbox"/> Day Standby			MP/DST Disc't	
		<input type="checkbox"/> Accessibility				
		Sub Total	<u>1261.60</u>			

Approved By \_\_\_\_\_ Our Representative Brian [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**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47111

**DST#: 2**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 14:45:30

## GENERAL INFORMATION:

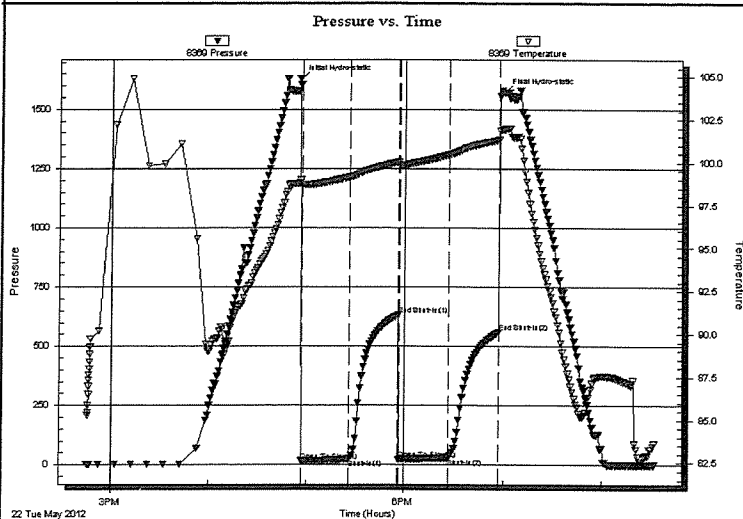
Formation: **KC"B-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:57:00  
 Time Test Ended: 20:32:00  
 Interval: **3307.00 ft (KB) To 3348.00 ft (KB) (TVD)**  
 Total Depth: 3348.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2074.00 ft (KB)  
 2069.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8369

Inside

Press@RunDepth: 27.68 psig @ 3308.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.22 End Date: 2012.05.22 Last Calib.: 2012.05.22  
 Start Time: 14:45:35 End Time: 20:31:59 Time On Btm: 2012.05.22 @ 16:55:30  
 Time Off Btm: 2012.05.22 @ 19:00:30

TEST COMMENT: IF-Very weak surface blow  
 ISI-No blow  
 FF-No blow  
 FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.02	98.81	Initial Hydro-static
2	16.38	98.69	Open To Flow (1)
31	22.10	99.15	Shut-In(1)
61	631.41	100.02	End Shut-In(1)
62	23.53	99.87	Open To Flow (2)
91	27.68	100.45	Shut-In(2)
122	559.02	101.31	End Shut-In(2)
125	1570.70	101.94	Final Hydro-static

## Recovery

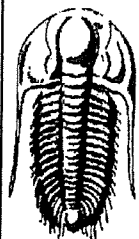
Length (ft)	Description	Volume (bbl)
30.00	Oil spotted mud	0.15

\* 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.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47111

**DST#: 2**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 14:45:30

### Tool Information

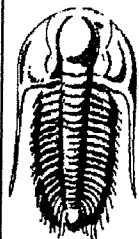
Drill Pipe:	Length: 3049.00 ft	Diameter: 3.80 inches	Volume: 42.77 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3307.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3285.00	
Shut In Tool	5.00			3290.00	
Hydraulic tool	5.00			3295.00	
Safety Joint	2.00			3297.00	
Packer	5.00			3302.00	23.00 Bottom Of Top Packer
Packer	5.00			3307.00	
Stubb	1.00			3308.00	
Recorder	0.00	8369	Inside	3308.00	
Recorder	0.00	8319	Outside	3308.00	
Perforations	4.00			3312.00	
Change Over Sub	1.00			3313.00	
Drill Pipe	31.00			3344.00	
Change Over Sub	1.00			3345.00	
Bullnose	3.00			3348.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47111

**DST#: 2**

ATTN: Ken Wallace

Test Start: 2012.05.22 @ 14:45:30

## 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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1900.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Oil spotted mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

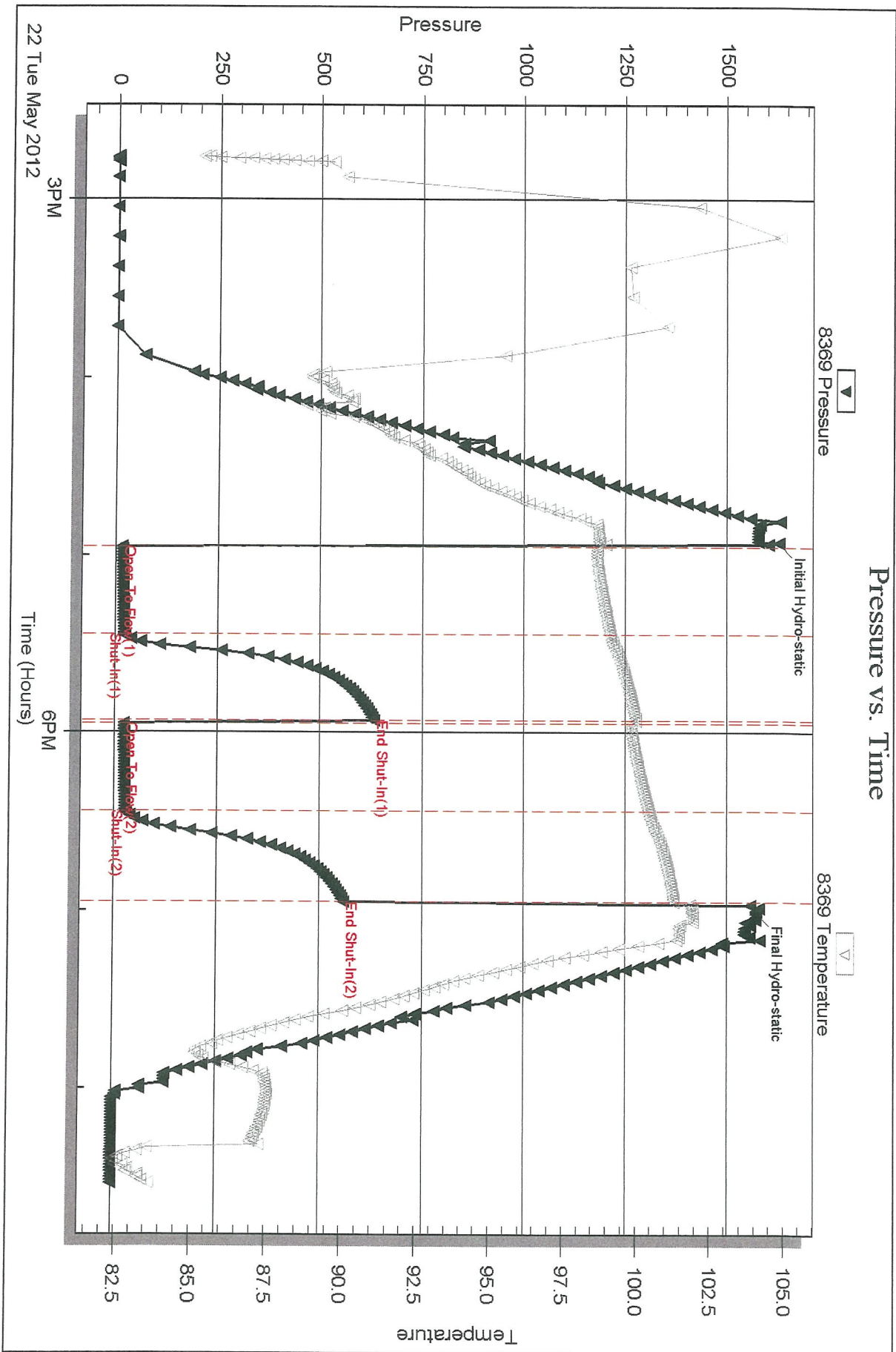
Inside

Falorriño Petroleum, Inc.

Arlene #1

DST Test Number: 2

### Pressure vs. Time



Tribolite Testing, Inc

Ref. No.: 47111

Printed: 2012.05.25 @ 09:42:09

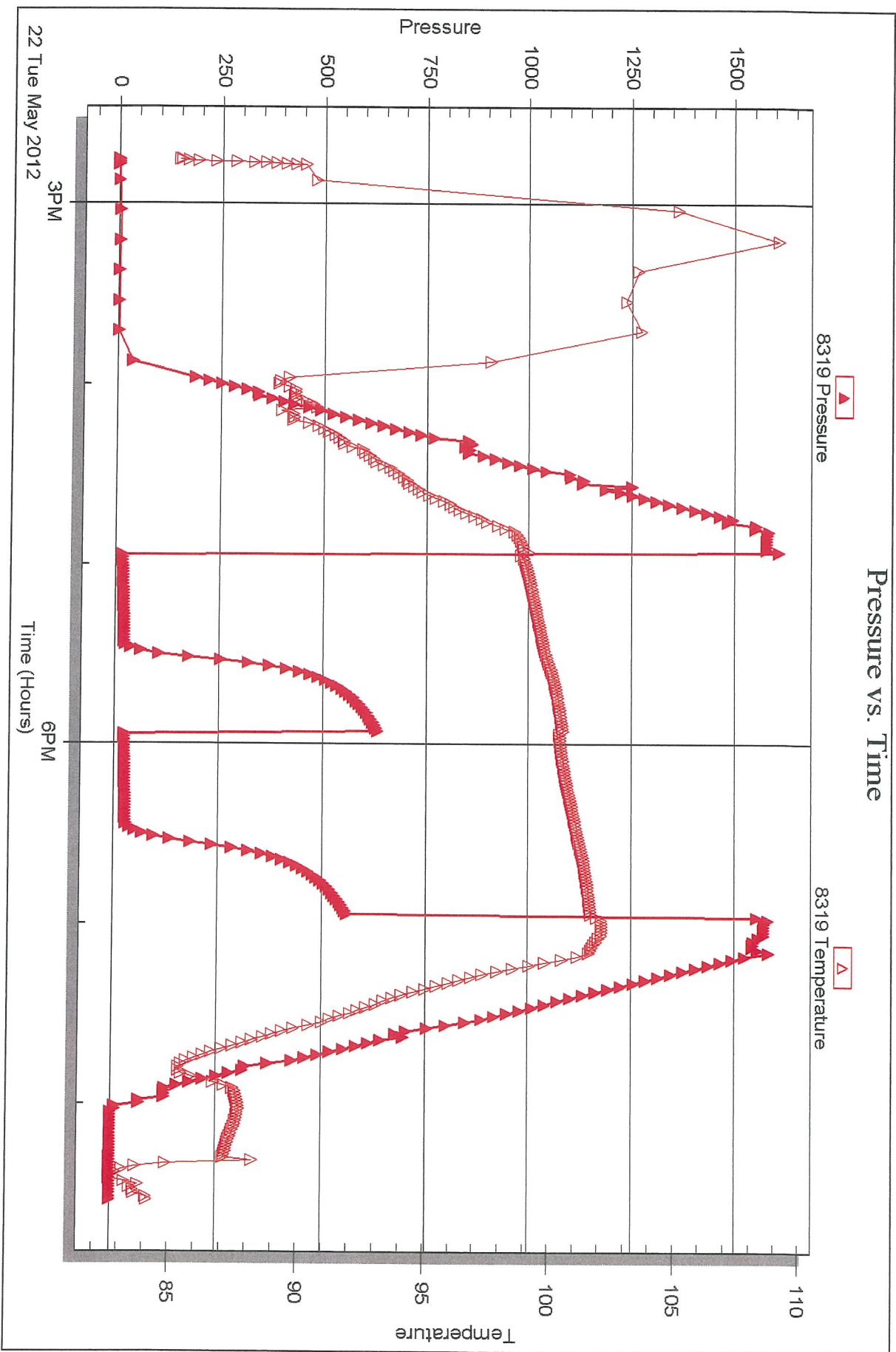


Serial #: 8319

Outside Palomino Petroleum, Inc.

Arlene #1

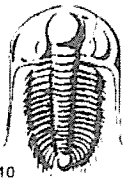
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 47111

Printed: 2012.05.25 @ 09:42:09



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47111

Well Name & No. Arlene #1 Test No 2 Date 5/22/12  
 Company Palomino Petroleum, Inc. Elevation 2074 KB 2069 GL  
 Address 4924 SE 84<sup>th</sup> ST Newton KS 67114  
 Co. Rep / Geo. Ken Wallace Rig Mallard  
 Location: Sec. 16 Twp. 9 Rge 19 Co Books State KS

Interval Tested 3307-3348 Zone Tested KC "B-D"  
 Anchor Length 41 Drill Pipe Run 3049 Mud Wt. 9.0  
 Top Packer Depth 3302 Drill Collars Run 241 Vis 49  
 Bottom Packer Depth 3307 Wt. Pipe Run          WL 6.8  
 Total Depth 3348 Chlorides 1900 ppm System LCM 1  
 Blow Description IF - very weak surface blow  
25' - no blow  
FF - N blow  
FSD - N blow

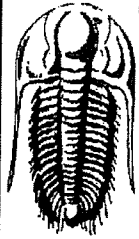
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>oil spotted Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 101 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 6628  Test 1150 T-On Location 14:25  
 (B) First Initial Flow 16  Jars T-Started 14:45  
 (C) First Final Flow 22  Safety Joint 75 T-Open 16:50  
 (D) Initial Shut-In 631  Circ Sub T-Pulled 18:50  
 (E) Second Initial Flow 24  Hourly Standby T-Out 20:30  
 (F) Second Final Flow 28  Mileage 36x2 111.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 559  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,571  Straddle \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1336.60  
 Sub Total 1336.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Bruce Duhon  
 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.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

ATTN: Ken Wallace

Job Ticket: 47112

**DST#: 3**

Test Start: 2012.05.23 @ 02:55:00

## GENERAL INFORMATION:

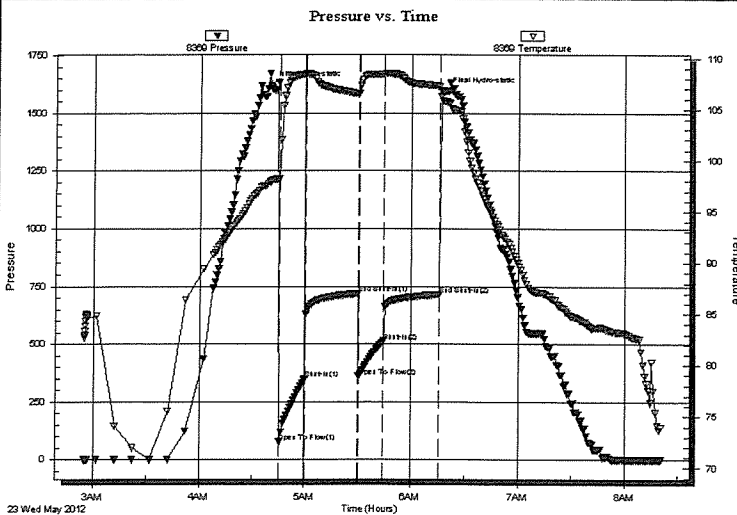
Formation: **KC "E"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:45:30  
 Time Test Ended: 08:20:30  
 Interval: **3345.00 ft (KB) To 3378.00 ft (KB) (TVD)**  
 Total Depth: 3378.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2074.00 ft (KB)  
 2069.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8369

Inside

Press@RunDepth: 511.31 psig @ 3346.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.23 End Date: 2012.05.23 Last Calib.: 2012.05.23  
 Start Time: 02:55:05 End Time: 08:20:29 Time On Btm: 2012.05.23 @ 04:40:00  
 Time Off Btm: 2012.05.23 @ 06:18:30

TEST COMMENT: IF-BOB in 2 min  
 ISI-No blow  
 FF-BOB in 2.5 min  
 FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1618.73	97.97	Initial Hydro-static
6	76.82	98.26	Open To Flow (1)
20	349.29	108.44	Shut-In(1)
50	717.18	106.48	End Shut-In(1)
51	359.15	106.54	Open To Flow (2)
65	511.31	108.43	Shut-In(2)
96	713.41	107.25	End Shut-In(2)
99	1595.39	105.78	Final Hydro-static

## Recovery

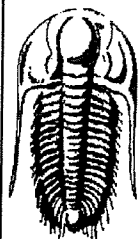
Length (ft)	Description	Volume (bbl)
890.00	water	10.29
120.00	MCW 70%W 30%M	1.68
50.00	Oil spotted WCM 40%W 60%M	0.70

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47112

**DST#: 3**

ATTN: Ken Wallace

Test Start: 2012.05.23 @ 02:55:00

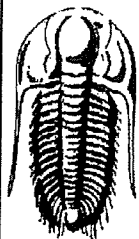
## Tool Information

Drill Pipe:	Length: 3110.00 ft	Diameter: 3.80 inches	Volume: 43.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3345.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	54.00 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			3325.00	
Shut In Tool	5.00			3330.00	
Hydraulic tool	5.00			3335.00	
Packer	5.00			3340.00	21.00 Bottom Of Top Packer
Packer	5.00			3345.00	
Stubb	1.00			3346.00	
Recorder	0.00	8369	Inside	3346.00	
Recorder	0.00	8319	Outside	3346.00	
Perforations	5.00			3351.00	
Perforations	24.00			3375.00	
Bullnose	3.00			3378.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47112

**DST#: 3**

ATTN: Ken Wallace

Test Start: 2012.05.23 @ 02:55:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 6.77 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 1900.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: 124000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
890.00	water	10.289
120.00	MCW 70%W 30%M	1.683
50.00	Oil spotted WCM 40%W 60%M	0.701

Total Length: 1060.00 ft      Total Volume: 12.673 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.07@70

Serial #: 8369

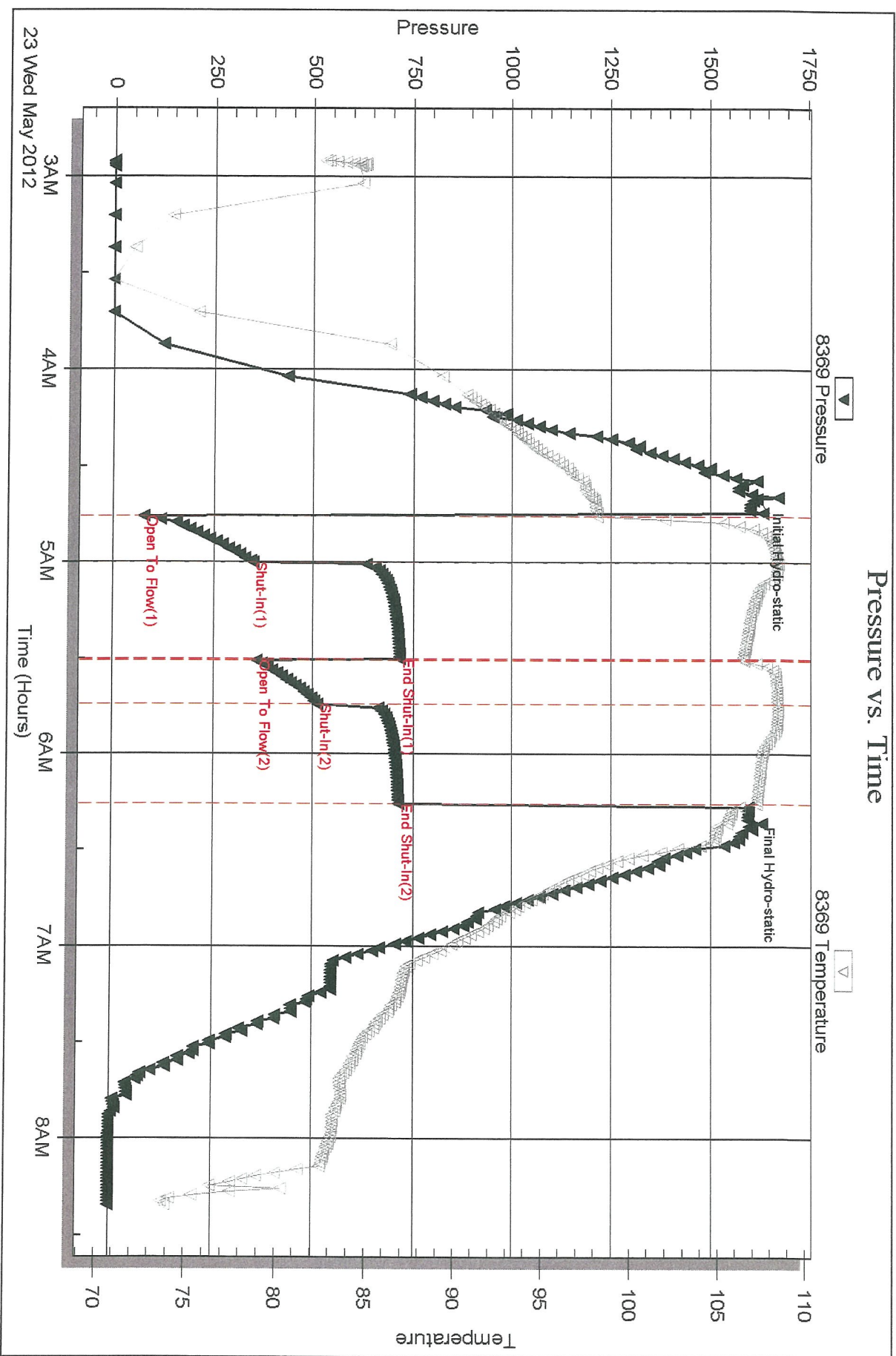
Inside

Palomino Petroleum, Inc.

Arlene #1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47112

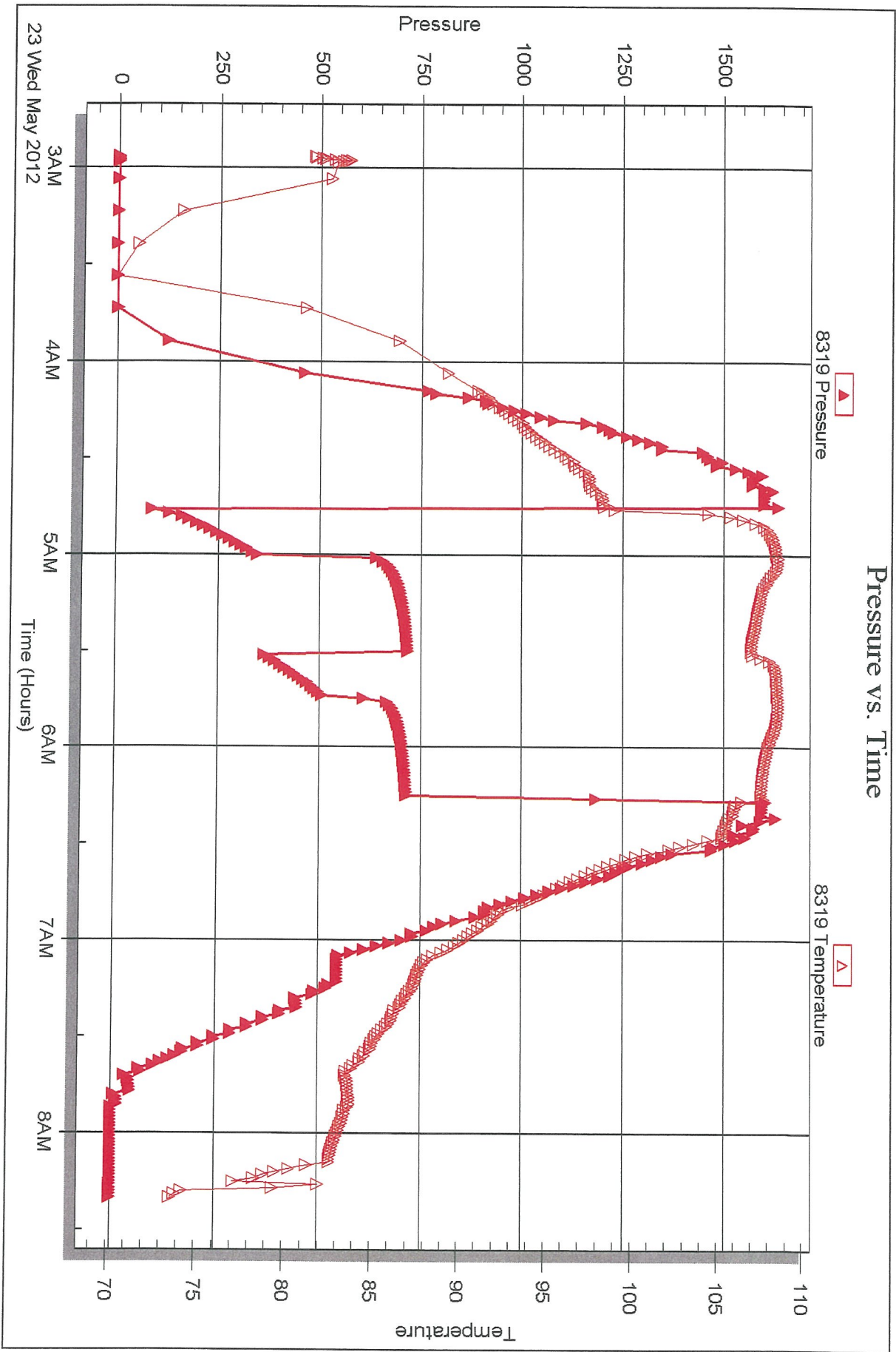
Printed: 2012.05.25 @ 09:41:20

Serial #: 8319

Outside Palomino Petroleum, Inc.

Arlene #1

DST Test Number: 3

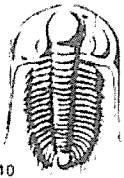


Trilobite Testing, Inc

Ref. No: 47112

Printed: 2012.05.25 @ 09:41:20





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47112

Well Name & No. <u>Arlene #1</u>	Test No. <u>3</u>	Date <u>5/23/12</u>
Company <u>Palomine Petroleum, Inc</u>	Elevation <u>2074</u>	KB <u>2069</u> GL
Address <u>4924 SE 84<sup>th</sup> St Newton KS 6744</u>		
Co. Rep / Geo. <u>Ken Wallace</u>	Rig <u>Mallard</u>	
Location. Sec. <u>16</u> Twp <u>9</u> Rge <u>19</u>	Co. <u>Books</u>	State <u>KS</u>

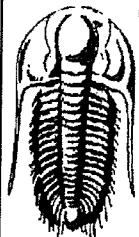
Interval Tested <u>3345 - 3378</u>	Zone Tested <u>KC'</u>
Anchor Length <u>33</u>	Drill Pipe Run <u>3110</u> Mud Wt. <u>9.0</u>
Top Packer Depth <u>3340</u>	Drill Collars Run <u>241</u> Vis <u>49</u>
Bottom Packer Depth <u>3345</u>	Wt. Pipe Run <u>---</u> WL <u>6.8</u>
Total Depth <u>3378</u>	Chlorides <u>1900</u> ppm System LCM <u>1</u>

Blow Description 7F - BOB in 2 min.  
FSI - No blow  
FF - BOB in 2 1/2 min.  
FSI - NO blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>oil spotted WCM</u>		<u>40</u>	<u>60</u>	
<u>120</u>	<u>MCM</u>		<u>70</u>	<u>30</u>	
<u>890</u>	<u>Water</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total <u>1060</u>	BHT <u>107</u>	Gravity	API RW <u>107 @ 70</u>	F Chlorides <u>124000</u> ppm
(A) Initial Hydrostatic <u>1619.</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>2:40</u>		
(B) First Initial Flow <u>77</u>	<input type="checkbox"/> Jars	T-Started <u>2:55</u>		
(C) First Final Flow <u>349</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>4:40</u>		
(D) Initial Shut-In <u>717</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>6:10</u>		
(E) Second Initial Flow <u>359</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>8:20</u>		
(F) Second Final Flow <u>511</u>	<input checked="" type="checkbox"/> Mileage <u>36x2</u> 111.60	Comments		
(G) Final Shut-In <u>713</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer		
(H) Final Hydrostatic <u>1,595</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Packer		
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies		
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	Sub Total 0		
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder	Total <u>1336.60</u>		
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	MP/DST Disc't		
	<input type="checkbox"/> Accessibility			
	Sub Total <u>1336.60</u>			

Approved By \_\_\_\_\_ Our Representative Beta Paul  
 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.**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**16-9s-19w Rooks, KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47113

**DST#: 4**

ATTN: Ken Wallace

Test Start: 2012.05.23 @ 19:35:00

## GENERAL INFORMATION:

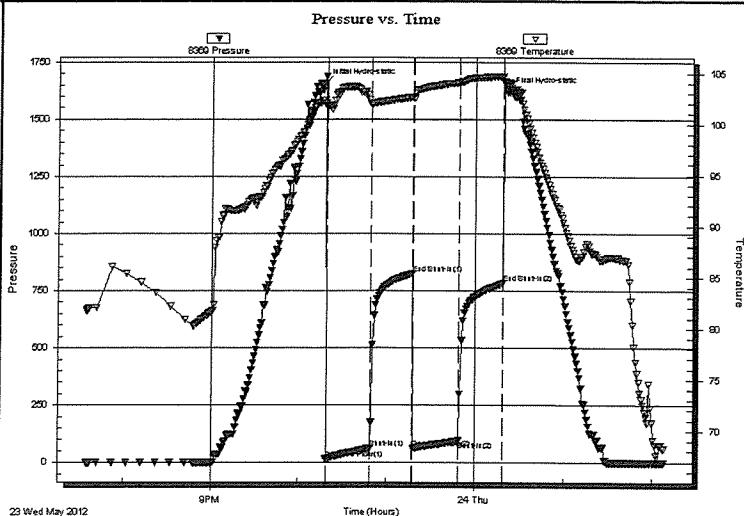
Formation: **KC**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:19:00  
 Time Test Ended: 02:07:30  
 Interval: **3396.00 ft (KB) To 3480.00 ft (KB) (TVD)**  
 Total Depth: 3480.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2074.00 ft (KB)  
 2069.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8369**

**Inside**

Press@RunDepth: 95.47 psig @ 3397.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.05.23 End Date: 2012.05.24 Last Calib.: 2012.05.24  
 Start Time: 19:35:05 End Time: 02:07:29 Time On Btm: 2012.05.23 @ 22:17:30  
 Time Off Btm: 2012.05.24 @ 00:21:00

TEST COMMENT: IF-3" blow  
 IS- No blow  
 FF-1" blow  
 FSI- No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1657.97	102.25	Initial Hydro-static
2	16.06	101.63	Open To Flow (1)
32	60.89	101.96	Shut-In (1)
60	825.22	102.62	End Shut-In (1)
61	63.30	102.55	Open To Flow (2)
91	95.47	104.01	Shut-In (2)
121	784.32	104.67	End Shut-In (2)
124	1620.97	104.03	Final Hydro-static

## Recovery

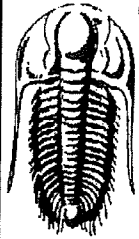
Length (ft)	Description	Volume (bbl)
135.00	VSWCM 5%W 95%M	0.66

\* 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.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47113

**DST#: 4**

ATTN: Ken Wallace

Test Start: 2012.05.23 @ 19:35:00

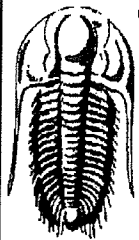
## Tool Information

Drill Pipe:	Length: 3145.00 ft	Diameter: 3.80 inches	Volume: 44.12 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3396.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	84.00 ft			
Tool Length:	105.00 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			3376.00	
Shut In Tool	5.00			3381.00	
Hydraulic tool	5.00			3386.00	
Packer	5.00			3391.00	21.00 Bottom Of Top Packer
Packer	5.00			3396.00	
Stubb	1.00			3397.00	
Recorder	0.00	8369	Inside	3397.00	
Recorder	0.00	8319	Outside	3397.00	
Perforations	5.00			3402.00	
Change Over Sub	1.00			3403.00	
Drill Pipe	62.00			3465.00	
Change Over Sub	1.00			3466.00	
Perforations	11.00			3477.00	
Bullnose	3.00			3480.00	84.00 Bottom Packers & Anchor

**Total Tool Length: 105.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47113

**DST#: 4**

ATTN: Ken Wallace

Test Start: 2012.05.23 @ 19:35:00

### 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:

50000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2700.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
135.00	VSWCM 5%W 95%M	0.664

Total Length: 135.00 ft      Total Volume: 0.664 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .18@60

Serial #: 8369

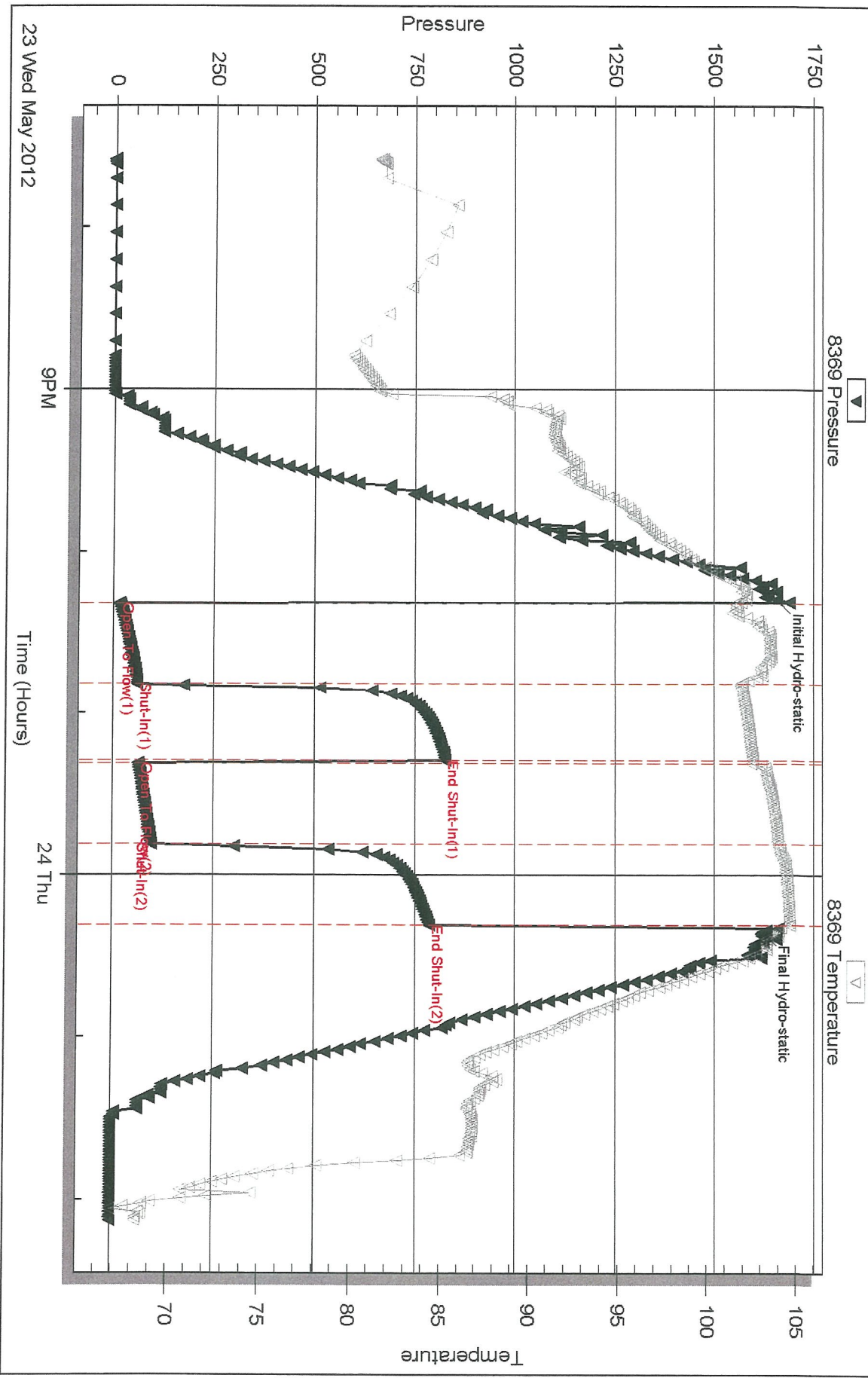
Inside

Palomino Petroleum, Inc.

Arlene #1

DST Test Number: 4

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 47113

Printed: 2012.05.25 @ 09:40:39

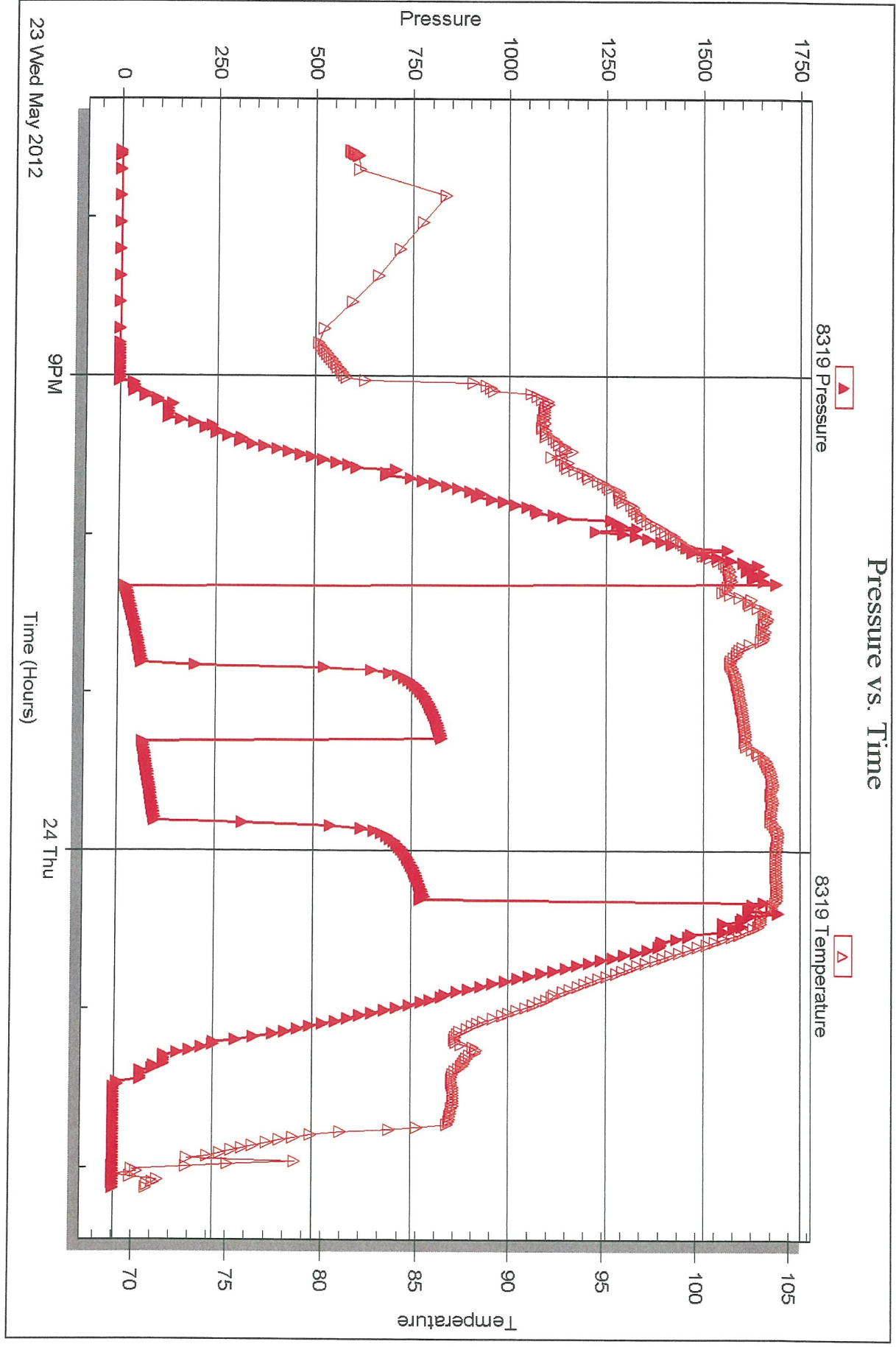
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Arlene #1

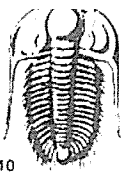
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 47113

Printed: 2012.05.25 @ 09:40:39



# TRIOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47113

4/10

Well Name & No. <u>Arlene #1</u>	Test No <u>4</u>	Date <u>5/23/12</u>
Company <u>Palomino Petroleum, Inc.</u>	Elevation <u>2074</u>	KB <u>2069</u> GL
Address <u>4924 SE 84<sup>th</sup> ST Newton KS 67114</u>		
Co. Rep / Geo. <u>Ken Wallace</u>	Rig <u>Mallard</u>	
Location: Sec. <u>16</u> Twp. <u>9</u> Rge. <u>19</u>	Co. <u>Roots</u>	State <u>KS</u>

Interval Tested <u>3396-3480</u>	Zone Tested <u>KC</u>	
Anchor Length <u>84</u>	Drill Pipe Run <u>3145</u>	Mud Wt. <u>9.1</u>
Top Packer Depth <u>3391</u>	Drill Collars Run <u>241</u>	Vis <u>49</u>
Bottom Packer Depth <u>3396</u>	Wt. Pipe Run <u>---</u>	WL <u>7.6</u>
Total Depth <u>3480</u>	Chlorides <u>2,700</u> ppm System	LCM <u>---</u>
Blow Description <u>IF - 3.2 blow</u>		
<u>ISD - No blow</u>		
<u>FF - 1m blow</u>		
<u>FSD - No blow</u>		

Rec	Feet of	%gas	%oil	%water	%mud
<u>135</u>	<u>vs wcm</u>			<u>5</u>	<u>95</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

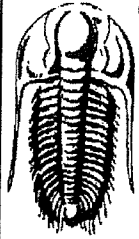
Rec Total <u>135</u>	BHT <u>105</u>	Gravity	API RW <u>.18</u> @ <u>60</u> °F	Chlorides <u>50000</u> ppm
(A) Initial Hydrostatic <u>1658</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>19.35</u>		
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars	T-Started <u>19:35</u>		
(C) First Final Flow <u>61</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>22:20</u>		
(D) Initial Shut-In <u>825</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>00:20</u>		
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:10</u>		
(F) Second Final Flow <u>95</u>	<input checked="" type="checkbox"/> Mileage <u>36X2</u> 111.60	Comments		
(G) Final Shut-In <u>284</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic <u>1,621</u>	<input type="checkbox"/> Straddle			

Initial Open <u>30</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	Sub Total 0
	Total 1336.60
	MP/DST Disc't
Sub Total 1336.60	

Approved By \_\_\_\_\_ Our Representative Beth D...

Triobite 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**

# DRILL STEM TEST REPORT

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47114

**DST#: 5**

ATTN: Ken Wallace

Test Start: 2012.05.24 @ 13:50:30

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:56:30

Time Test Ended: 19:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3482.00 ft (KB) To 3559.00 ft (KB) (TVD)**

Total Depth: 3559.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2074.00 ft (KB)

2069.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8369** Inside

Press@RunDepth: 36.77 psig @ 3483.00 ft (KB)

Start Date: 2012.05.24

End Date: 2012.05.24

Start Time: 13:50:35

End Time: 19:09:29

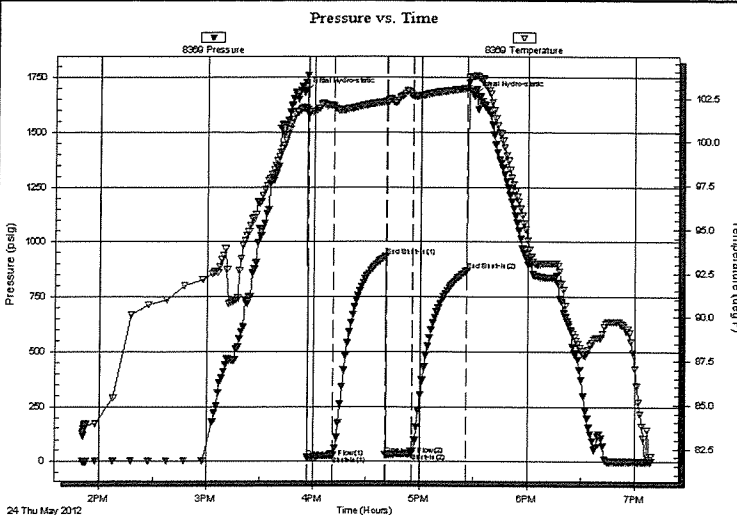
Capacity: 8000.00 psig

Last Calib.: 2012.05.24

Time On Btm: 2012.05.24 @ 15:54:30

Time Off Btm: 2012.05.24 @ 17:29:30

TEST COMMENT: IF-3/4" blow  
ISI-No blow  
FF-No blow  
FSI-No blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.29	101.93	Initial Hydro-static
2	17.96	101.57	Open To Flow (1)
17	26.90	102.02	Shut-In (1)
46	934.42	102.29	End Shut-In (1)
47	30.07	102.19	Open To Flow (2)
61	36.77	102.63	Shut-In (2)
92	868.37	103.04	End Shut-In (2)
95	1669.07	103.72	Final Hydro-static

## Recovery

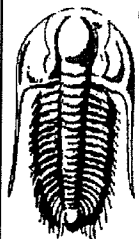
Length (ft)	Description	Volume (bbl)
30.00	mud	0.15

\* 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.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47114

**DST#: 5**

ATTN: Ken Wallace

Test Start: 2012.05.24 @ 13:50:30

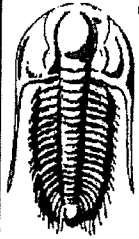
### Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 241.00 ft	Diameter: 2.25 inches	Volume: 1.19 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3482.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	77.00 ft			
Tool Length:	98.00 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			3462.00	
Shut In Tool	5.00			3467.00	
Hydraulic tool	5.00			3472.00	
Packer	5.00			3477.00	21.00 Bottom Of Top Packer
Packer	5.00			3482.00	
Stubb	1.00			3483.00	
Recorder	0.00	8369	Inside	3483.00	
Recorder	0.00	8319	Outside	3483.00	
Perforations	7.00			3490.00	
Change Over Sub	1.00			3491.00	
Drill Pipe	63.00			3554.00	
Change Over Sub	1.00			3555.00	
Perforations	1.00			3556.00	
Bullnose	3.00			3559.00	77.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Palomino Petroleum, Inc.

**16-9s-19w Rooks,KS**

4924 SE 84th ST  
New ton KS 67114

**Arlene #1**

Job Ticket: 47114

**DST#: 5**

ATTN: Ken Wallace

Test Start: 2012.05.24 @ 13:50:30

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 7.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2700.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
30.00	mud	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

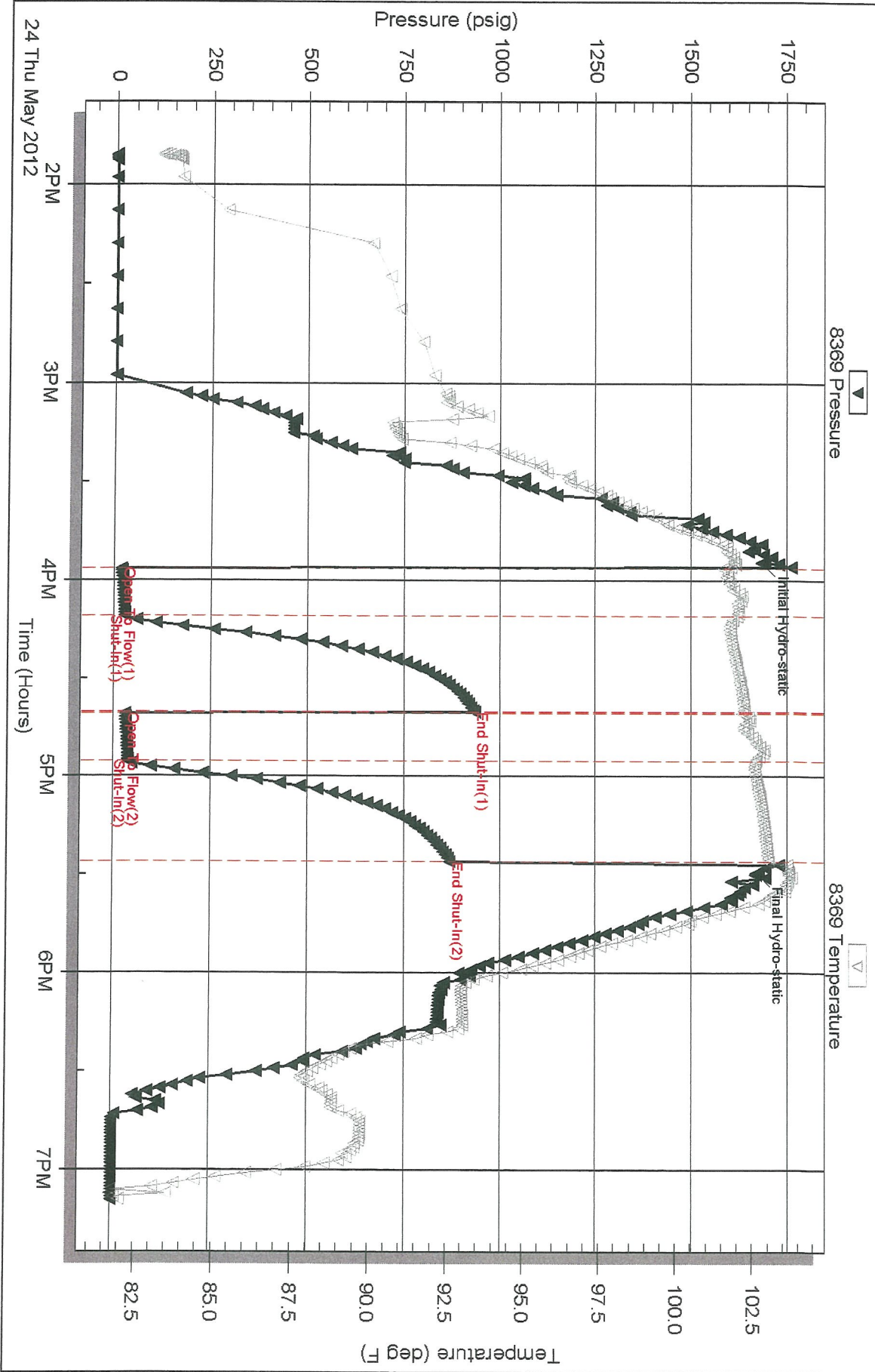
Inside

Palomino Petroleum, Inc.

Arlene #1

DST Test Number: 5

### Pressure vs. Time



Tribolite Testing, Inc

Ref. No.: 47114

Printed: 2012.05.25 @ 09:39:05

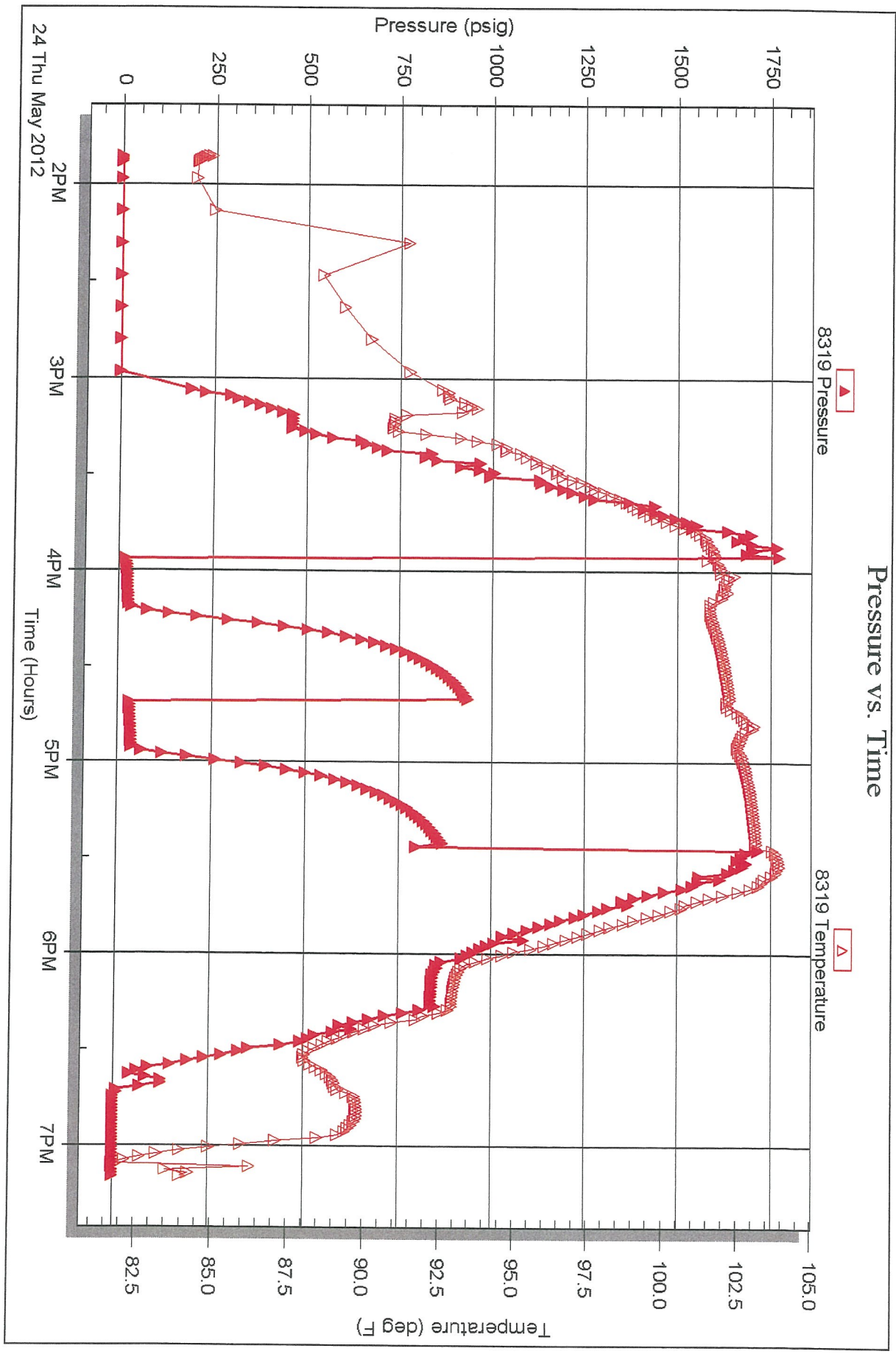
Serial #: 8319

Outside

Palomino Petroleum, Inc.

Arlene #1

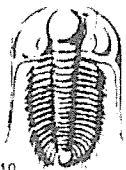
DST Test Number: 5



Triobite Testing, Inc

Ref. No: 47114

Printed: 2012.05.25 @ 09:39:05



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47114

4/10

Well Name & No. Arlene #1 Test No. 5 Date 5/24/12  
 Company Palomino Petroleum, Inc. Elevation 2074 KB 2069 GL  
 Address 4924 SE 84<sup>th</sup> ST Newton KS 67114  
 Co. Rep / Geo. Ken Wallace Rig Mallard  
 Location: Sec. 16 Twp 9 Rge 19 Co. Rooks State KS

Interval Tested 3482-3559 Zone Tested Ar-6  
 Anchor Length 77 Drill Pipe Run 3236 Mud Wt. 9.1  
 Top Packer Depth 3477 Drill Collars Run 241 Vis 49  
 Bottom Packer Depth 3482 Wt. Pipe Run --- WL 7.6  
 Total Depth 3559 Chlorides 2700 ppm System LCM ---  
 Blow Description IF - 3/4 in blow  
ISI - No blow  
FF - N blow  
FSE - N blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Feet of Mud</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 30 BHT 103  
 (A) Initial Hydrostatic 6683  
 (B) First Initial Flow 18  
 (C) First Final Flow 27  
 (D) Initial Shut-In 934  
 (E) Second Initial Flow 30  
 (F) Second Final Flow 37  
 (G) Final Shut-In 868  
 (H) Final Hydrostatic 4669

Gravity API RW @ F Chlorides ppm  
 Test 1150  
 Jars  
 Safety Joint 75  
 Circ Sub  
 Hourly Standby  
 Mileage 36x2 111.60  
 Sampler  
 Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total 1336.60

T-On Location 13:50  
 T-Started 13:50  
 T-Open 15:55  
 T-Pulled 18:25  
 T-Out 19:05  
 Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1336.60  
 MP/DST Disc't \_\_\_\_\_

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative \_\_\_\_\_

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