

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln  
 RUSSELL, KS 67665

# Invoice

Date	Invoice #
9/18/2017	3096

RECEIVED

SEP 20 2017

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
FOTOPOLAS#1	Due on receipt	

Quantity	Description	Rate	Amount
144	COMMON CEMENT	16.00	2,304.00
96	POZ	9.50	912.00
9	GEL	21.50	193.50
60	FLO-SEAL	2.00	120.00
309	HANDLING	1.90	587.10
	BULK MILEAGE	500.00	500.00
1	TRI-PLEX PUMP CHARGE FOR PLUG	750.00	750.00
20	PUMP TRUCK MILEAGE	7.00	140.00
20	PICKUP FOR TRANSPORTATION OF GOODS TO JOB SITE	3.00	60.00
1	DRY HOLE PLUG	62.50	62.50
1	25% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	LOGAN CO SALES TAX	8.00%	0.00

Thank you for your business.	<b>Total</b>	\$5,629.10
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# GLOBAL OIL FIELD SERVICES, LLC

3096

REMIT TO 24 S. Lincoln  
Russell, KS 67665

SERVICE POINT: Russell KS

DATE <u>9-13-17</u>	SEC. <u>16</u>	TWP. <u>19S</u>	RANGE <u>36W</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Froggala</u>		WELL #. <u>1</u>		LOCATION <u>South of Russell Spring 3/CS</u>		COUNTY <u>Logan</u>	STATE <u>KS</u>
OLD OR NEW (CIRCLE ONE)			<u>LaKenna Rd 2 Egress 15 miles from</u>				

CONTRACTOR <u>W/W Drilling Rig #10</u>	OWNER <u>Palomino Petroleum Inc</u>
TYPE OF JOB <u>Plug</u>	
HOLE SIZE <u>5 7/8"</u>	T.D. <u>2660'</u>
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS	
DISPLACEMENT	

CEMENT AMOUNT ORDERED <u>240 SKS 60/40 PCZ</u>
<u>4 3/4 Gal w/ 1/2 per gal</u>

EQUIPMENT	
PUMP TRUCK # <u>409</u>	CEMENTER <u>Cody</u>
	HELPER <u>Chris</u>
BULK TRUCK # <u>378</u>	DRIVER <u>Jason</u>
BULK TRUCK #	DRIVER

COMMON	@	
POZMIX	@	
GEL	@	
CHLORIDE	@	
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING	@	
MILEAGE		
		TOTAL

REMARKS:  
50 SKS 2660'  
100 SKS 1480  
50' 280'  
10' SKS 80' wiper plug  
Rat hole 30 SKS

CHARGE TO: Palomino Petroleum  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE		
DEPTH OF JOB		
PUMP TRUCK CHARGE		
EXTRA FOOTAGE	@	
MILEAGE	@	
MANIFOLD	@	
	@	
	@	
		TOTAL

PLUG & FLOAT EQUIPMENT		
	@	
	@	
	@	
	@	
	@	
		TOTAL

Global Oil Field 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 Richy Wilson  
 SIGNATURE Richy Wilson

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS



REMIT TO  
QES Pressure Pumping LLC  
Dept:970  
P.O.Box 4346  
Houston, TX 77210-4346

MAIN OFFICE  
P.O.Box884  
Chanute,KS 66720  
620/431-9210,1-800/467-8676  
Fax 620/431-0012

Invoice

Invoice# 811224

Invoice Date: 09/13/17

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.  
4924 SE 84TH STREET  
NEWTON KS 67114-8827  
USA

RECEIVED

SEP 15 2017

FOTOPOILOS UNIT #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0471	Cement Pump Charge 301' - 500' (Coalbed/Methane)	1.000	1,150.0000	30.000	805.00
CE0002	Equipment Mileage Charge - Heavy Equipment	45.000	7.1500	30.000	225.23
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	30.000	462.00
CC5871	Surface Blend II, 2% Gel/3% CaCl	165.000	23.0000	30.000	2,656.50

Subtotal 5,926.75

Discounted Amount 1,778.03

SubTotal After Discount 4,148.72

Amount Due 6,230.35 If paid after 10/13/17

Tax: 212.52

Total: 4,361.25



9005 / 8847

TICKET NUMBER 53607  
 LOCATION Oakley KS  
 FOREMAN Jerry Y

**ELD TICKET & TREATMENT REPORT  
 CEMENT**

Invoice # 811224 KS

620-431-9210 or 800-467-8676

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-5-17	<u>6285</u>	Fotopoulos Unit #1	16	14S	36W	Logan
CUSTOMER		Palomino Petro				
MAILING ADDRESS		4924 SE 84th Street				
CITY	STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
<u>Newton</u>	<u>KS</u>	<u>6114-8827</u>	<u>731</u>	<u>Cory D</u>		
			<u>479</u>	<u>Walt D</u>		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 220 CASING SIZE & WEIGHT 8 1/8 240  
 CASING DEPTH 220 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL 1.29 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20  
 DISPLACEMENT 12 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting & rig up on well 10 circulate casing mix 165 sks  
com class A 3% CC 2% ge 10 washes & displace with 12.76 bbl freshwater  
& shut in found cement to collar

cement came to  
surface

Thank you  
Jerry Y

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
<u>CE0471</u>	<u>1</u>	<u>PUMP CHARGE</u>	<u>1150.00</u>	<u>1150.00</u>
<u>CE0002</u>	<u>45</u>	<u>MILEAGE</u>	<u>7.15</u>	<u>321.75</u>
<u>CE0711</u>	<u>7.76</u>	<u>ton mileage deliver</u>	<u>660.00</u>	<u>660.00</u>
<u>CL5871</u>	<u>165 sks</u>	<u>surface blend II</u>	<u>23.00</u>	<u>3795.00</u>
			<u>Subtotal</u>	<u>5926.75</u>
			<u>-30%</u>	<u>1778.03</u>
			<u>Subtotal</u>	<u>4148.72</u>
			SALES TAX	<u>212.52</u>
			ESTIMATED TOTAL	<u>4361.25</u>

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

## TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All process license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

## SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, or injury to or death of employees and representatives, of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

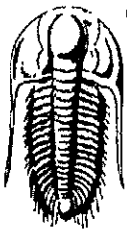
(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and re-sell to Customer down hole equipment; including but not limited to float equipment, DV tools, port collars, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.09.10 @ 15:01:00

### GENERAL INFORMATION:

Formation: **Marmaton.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:16:45

Time Test Ended: 21:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**

Reference Elevations: 3319.00 ft (KB)

Total Depth: 4584.00 ft (KB) (TVD)

3314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8845** Outside

Press@RunDepth: 20.25 psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.10

End Date: 2017.09.10

Last Calib.: 2017.09.10

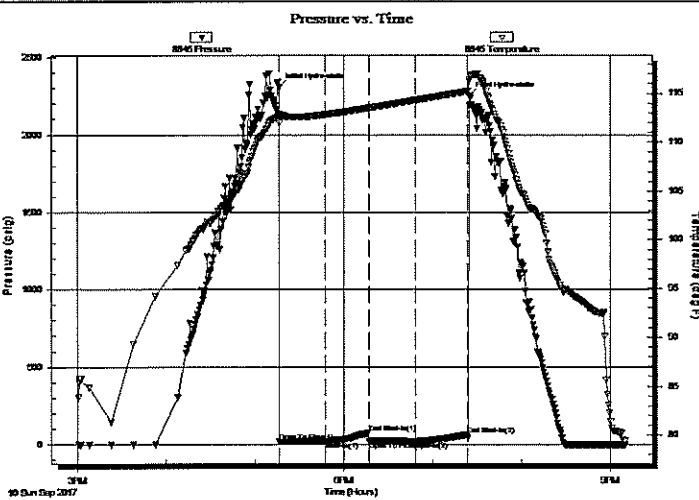
Start Time: 15:01:05

End Time: 21:09:59

Time On Btm: 2017.09.10 @ 17:16:30

Time Off Btm: 2017.09.10 @ 19:25:00

TEST COMMENT: IF: 1/4" blow.  
IS: No return.  
FF: No blow.  
FSI: No return.



### PRESSURE SUMMARY

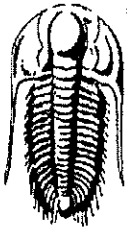
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.33	112.85	Initial Hydro-static
1	18.81	112.02	Open To Flow (1)
32	20.68	112.82	Shut-In(1)
61	74.31	113.50	End Shut-In(1)
61	19.52	113.50	Open To Flow (2)
92	20.25	114.30	Shut-In(2)
127	60.73	115.20	End Shut-In(2)
129	2249.76	116.46	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bb)
10.00	Mud 100m, (oil spots)	0.05

### Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.09.10 @ 15:01:00

### GENERAL INFORMATION:

Formation: **Marmaton.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:16:45

Time Test Ended: 21:10:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

Interval: **4474.00 ft (KB) To 4584.00 ft (KB) (TVD)**

Reference Elevations: 3319.00 ft (KB)

Total Depth: 4584.00 ft (KB) (TVD)

3314.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8365** Inside

Press@RunDepth: psig @ 4475.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.10

End Date: 2017.09.10

Last Calib.: 2017.09.10

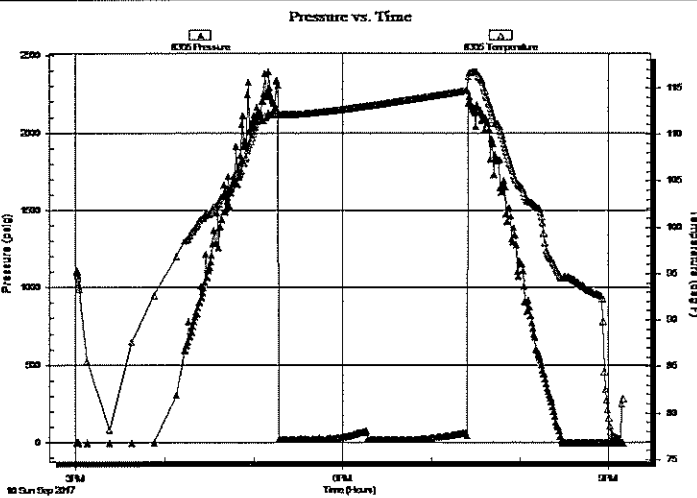
Start Time: 15:01:05

End Time: 21:09:59

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow.  
IS: No return.  
FF: No blow.  
FSI: No return.



### PRESSURE SUMMARY

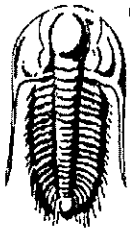
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots)	0.05

### Gas Rates

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



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

16 14s 36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64220

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2017.09.10 @ 15:01:00

### 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: 61.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m, (oil spots)	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

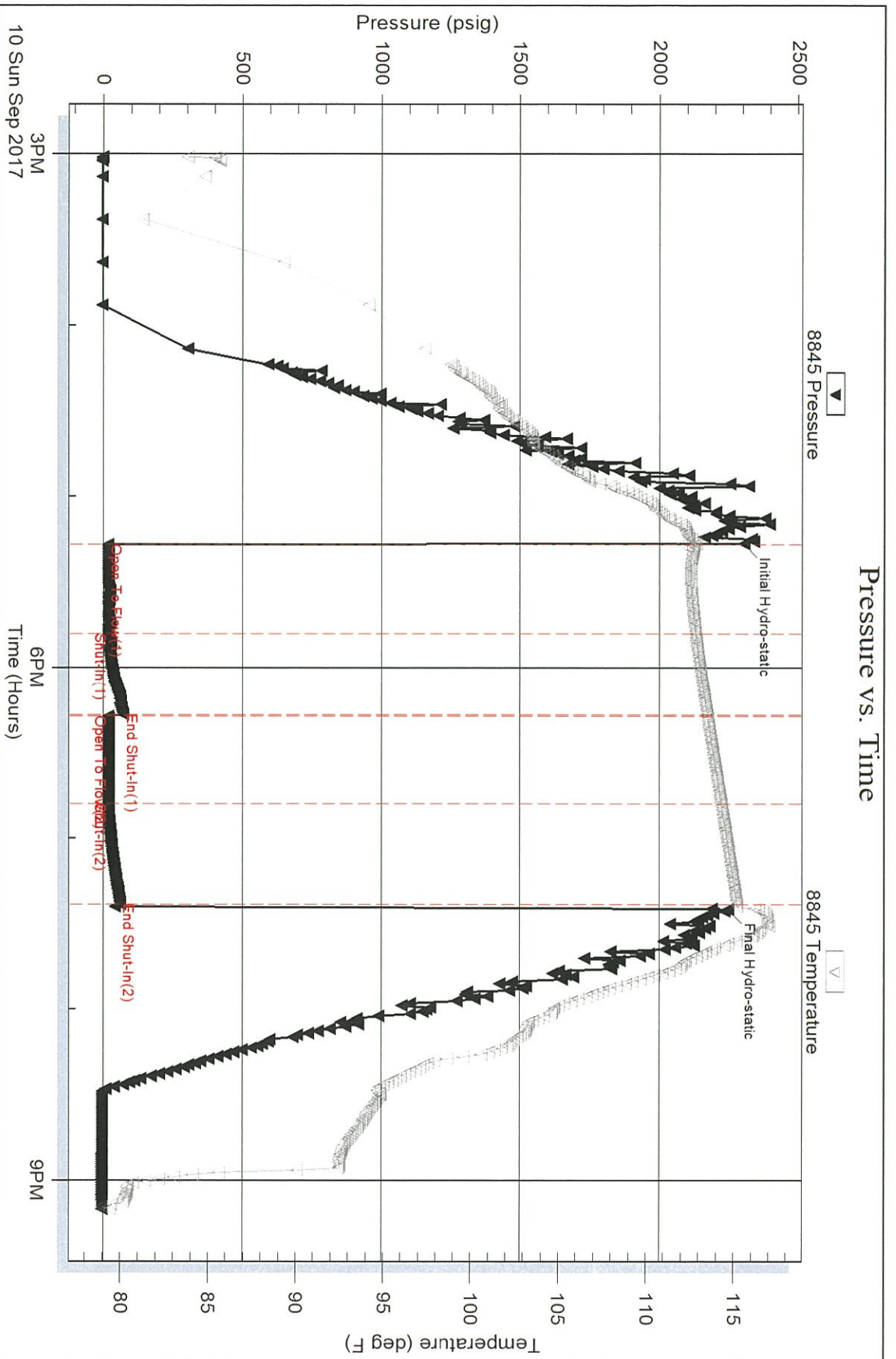


Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64220

Printed: 2017.09.11 @ 07:23:38

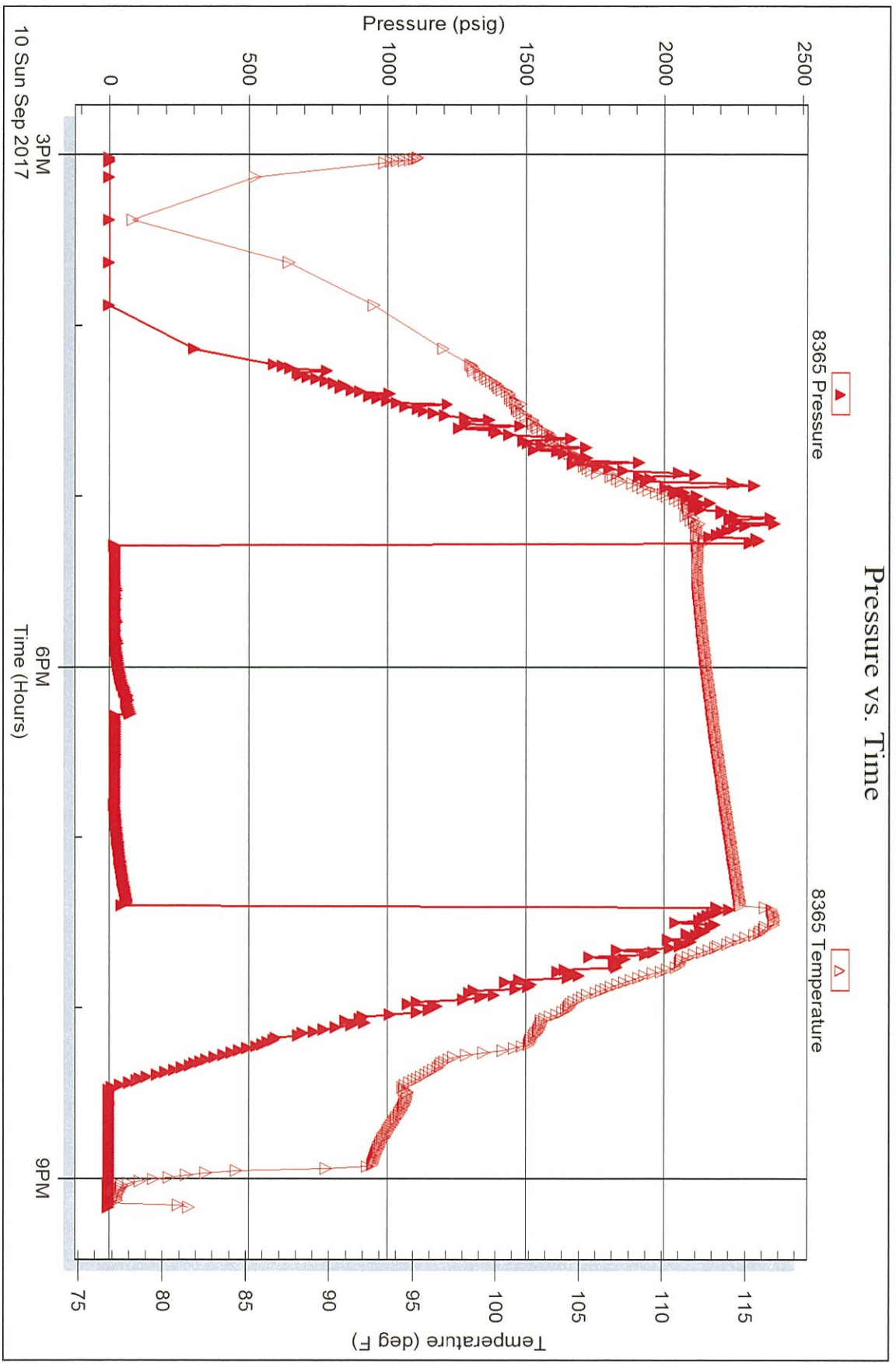
Serial #: 8365

Inside

Palomino Petroleum

Fotopoulos Unit #1

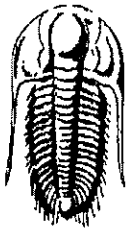
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64220

Printed: 2017.09.11 @ 07:23:38



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Palomino Petroleum

16-14s-36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

### GENERAL INFORMATION:

Formation: **Ft Scott, Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:29:45

Time Test Ended: 14:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: **4613.00 ft (KB) To 4682.00 ft (KB) (TVD)**

Total Depth: 4682.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3319.00 ft (KB)

3314.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8845** Outside

Press@RunDepth: 22.24 psig @ 4614.00 ft (KB)

Start Date: 2017.09.11

End Date:

2017.09.11

Start Time: 08:26:05

End Time:

14:09:59

Capacity: 8000.00 psig

Last Calib.: 2017.09.11

Time On Btm: 2017.09.11 @ 10:29:30

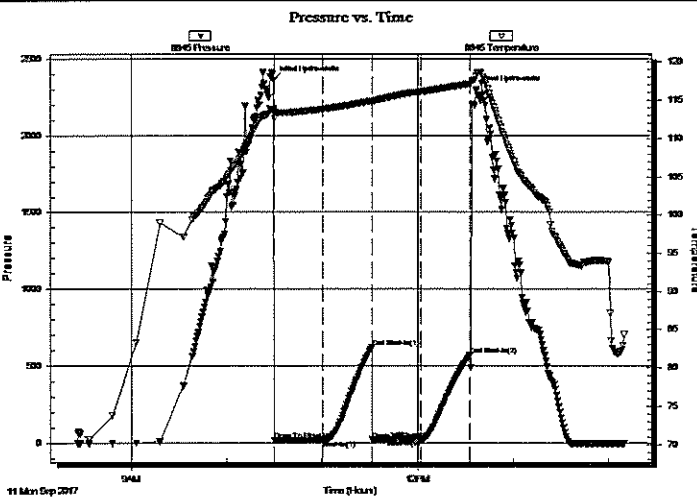
Time Off Btm: 2017.09.11 @ 12:36:15

TEST COMMENT: IF: 1/2" blow , Receded to surface.

IS: No return.

FF: Surface blow , died @ 15 min.

FSI: No return.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2361.53	113.87	Initial Hydro-static
1	18.16	112.56	Open To Flow (1)
31	21.19	113.84	Shut-In(1)
62	619.17	114.93	End Shut-In(1)
62	21.70	114.63	Open To Flow (2)
93	22.24	116.14	Shut-In(2)
124	569.50	117.17	End Shut-In(2)
127	2296.75	118.12	Final Hydro-static

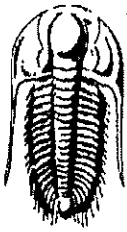
### Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots in tool)	0.05

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St.  
New ton, Ks 67114  
ATTN: Andrew Stenzel

**16-14s-36w**  
**Fotopoulos Unit #1**  
Job Ticket: 64222      **DST#: 2**  
Test Start: 2017.09.11 @ 08:26:00

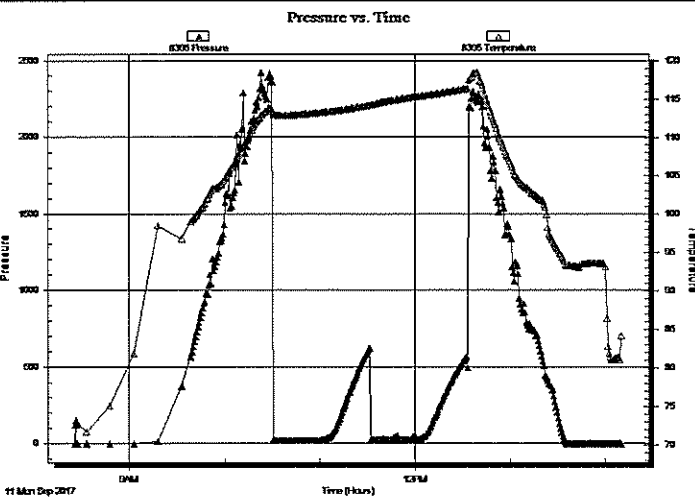
**GENERAL INFORMATION:**

Formation: **Ft Scott, Pawnee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 10:29:45  
Time Test Ended: 14:10:00  
Interval: **4613.00 ft (KB) To 4682.00 ft (KB) (TVD)**  
Total Depth: 4682.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches  
Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Bradley Walter  
Unit No: 78  
Reference Elevations: 3319.00 ft (KB)  
3314.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8365      Inside**

Press@RunDepth:      psig @ 4614.00 ft (KB)  
Start Date: 2017.09.11      End Date: 2017.09.11  
Start Time: 08:26:05      End Time: 14:09:59  
Capacity: 8000.00 psig  
Last Calib.: 2017.09.11  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 1/2" blow , Receded to surface.  
ISI: No return.  
FF: Surface blow , died @ 15 min.  
FSI: No return.



**PRESSURE SUMMARY**

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

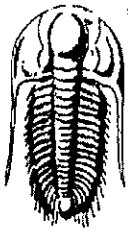
**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	Mud 100m, (oil spots in tool)	0.05

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

16-14s-36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64222

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2017.09.11 @ 08:26:00

## 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud 100m, (oil spots in tool)	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

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

Laboratory Name:      Laboratory Location:

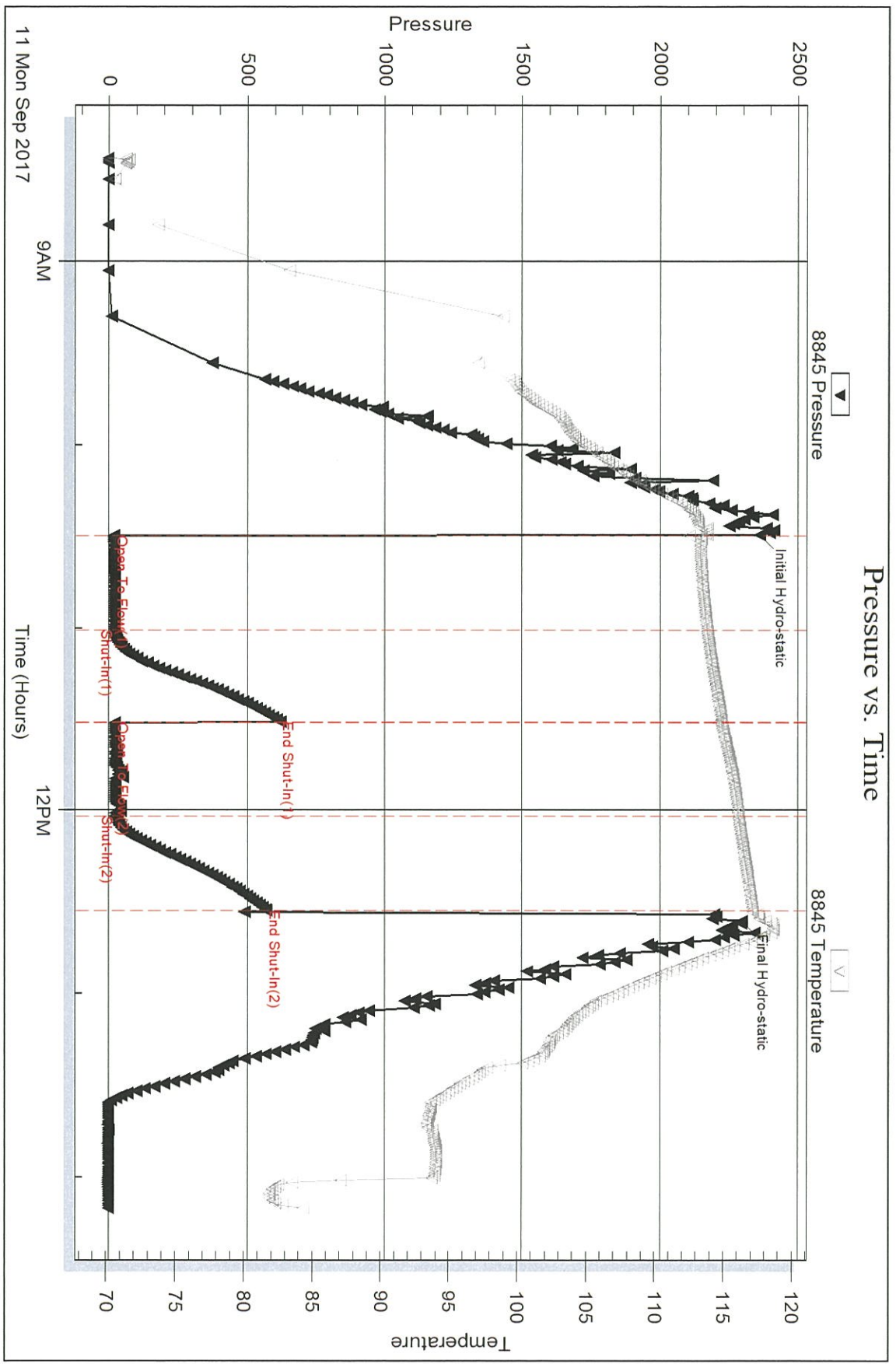
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 64222

Printed: 2017.09.11 @ 14:36:20

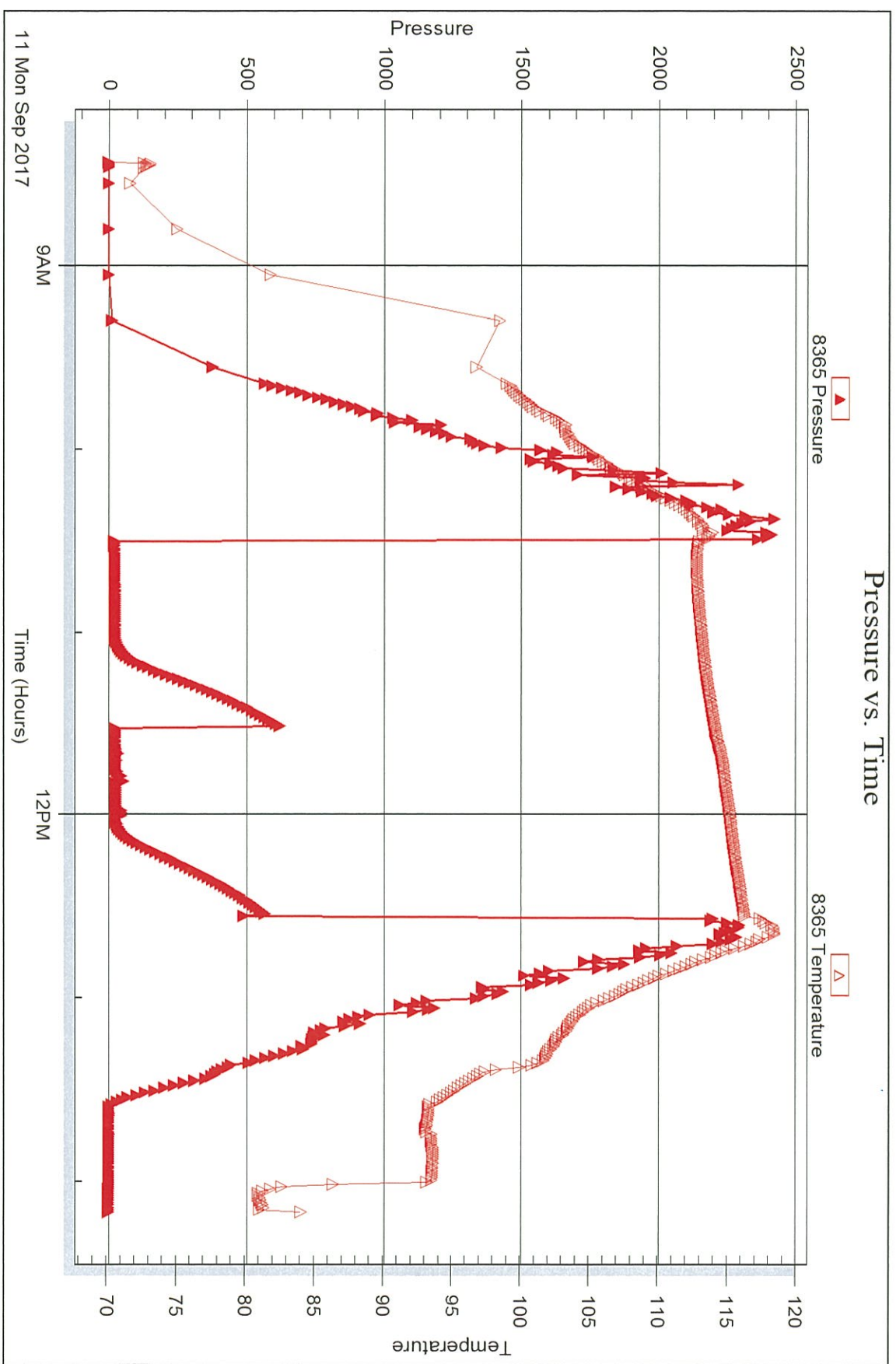
Serial #: 8365

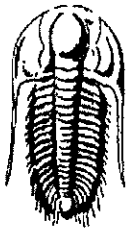
Inside

Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 2





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**16 14s 36w**

4924 SE 84th St.  
New ton, Ks 67114

**Fotopoulos Unit #1**

Job Ticket: 64223

**DST#: 3**

ATTN: Andrew Stenzel

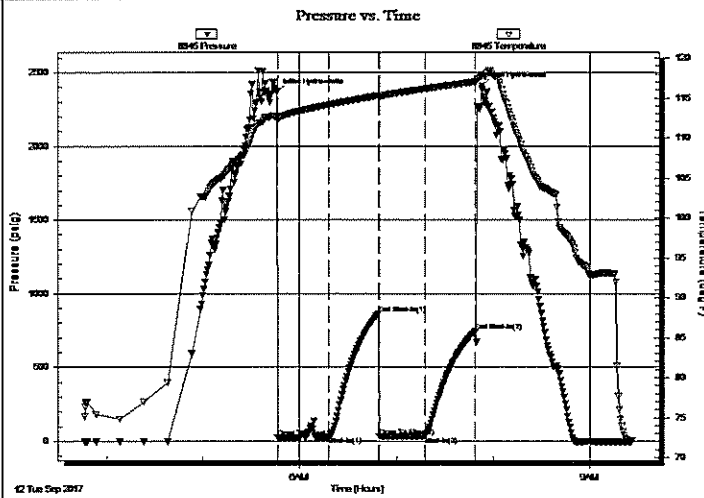
Test Start: 2017.09.12 @ 03:46:00

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:46:30  
 Time Test Ended: 09:26:30  
 Interval: **4668.00 ft (KB) To 4803.00 ft (KB) (TVD)**  
 Total Depth: **4803.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Bradley Walter**  
 Unit No: **78**  
 Reference Elevations: **3319.00 ft (KB)**  
**3314.00 ft (CF)**  
 KB to GR/CF: **5.00 ft**

**Serial #: 8845** Outside  
 Press@RunDepth: **35.48 psig @ 4669.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2017.09.12** End Date: **2017.09.12** Last Calib.: **2017.09.12**  
 Start Time: **03:46:05** End Time: **09:26:29** Time On Btm: **2017.09.12 @ 05:46:00**  
 Time Off Btm: **2017.09.12 @ 07:53:00**

TEST COMMENT: IF: 1" blow.  
 ISI: No return.  
 FF: No blow.  
 FSI: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2364.64	112.73	Initial Hydro-static
1	24.11	112.19	Open To Flow (1)
33	30.20	114.15	Shut-In(1)
63	863.40	115.32	End Shut-In(1)
63	32.02	114.94	Open To Flow (2)
92	35.48	116.16	Shut-In(2)
123	744.57	117.04	End Shut-In(2)
127	2409.87	117.93	Final Hydro-static

## Recovery

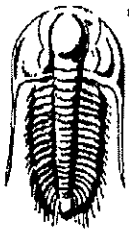
Length (ft)	Description	Volume (bbl)
25.00	Mud 100m, (oil spots in tool)	0.12

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

16 14s 36w

4924 SE 84th St.  
New ton, Ks 67114

Fotopoulos Unit #1

Job Ticket: 64223

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2017.09.12 @ 03:46:00

## GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:46:30

Time Test Ended: 09:26:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

Interval: 4668.00 ft (KB) To 4803.00 ft (KB) (TVD)

Total Depth: 4803.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3319.00 ft (KB)

3314.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4669.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.09.12 End Date: 2017.09.12

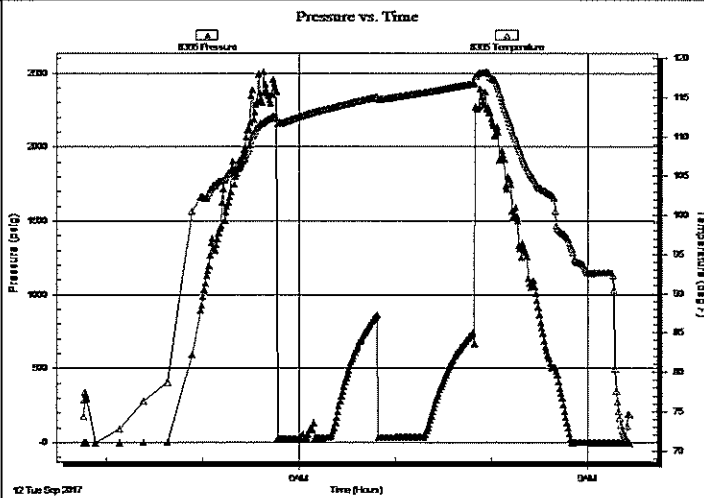
Last Calib.: 2017.09.12

Start Time: 03:46:05 End Time: 09:26:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.  
ISI: No return.  
FF: No blow.  
FSI: No return.



## PRESSURE SUMMARY

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

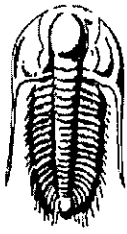
## Recovery

Length (ft)	Description	Volume (bbl)
25.00	Mud 100m, (oil spots in tool)	0.12

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**16 14s 36w**

4924 SE 84th St.  
New ton, Ks 67114

**Fotopoulos Unit #1**

Job Ticket: 64223

**DST#: 3**

ATTN: Andrew Stenzel

Test Start: 2017.09.12 @ 03:46:00

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Mud 100m, (oil spots in tool)	0.123

Total Length: 25.00 ft      Total Volume: 0.123 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

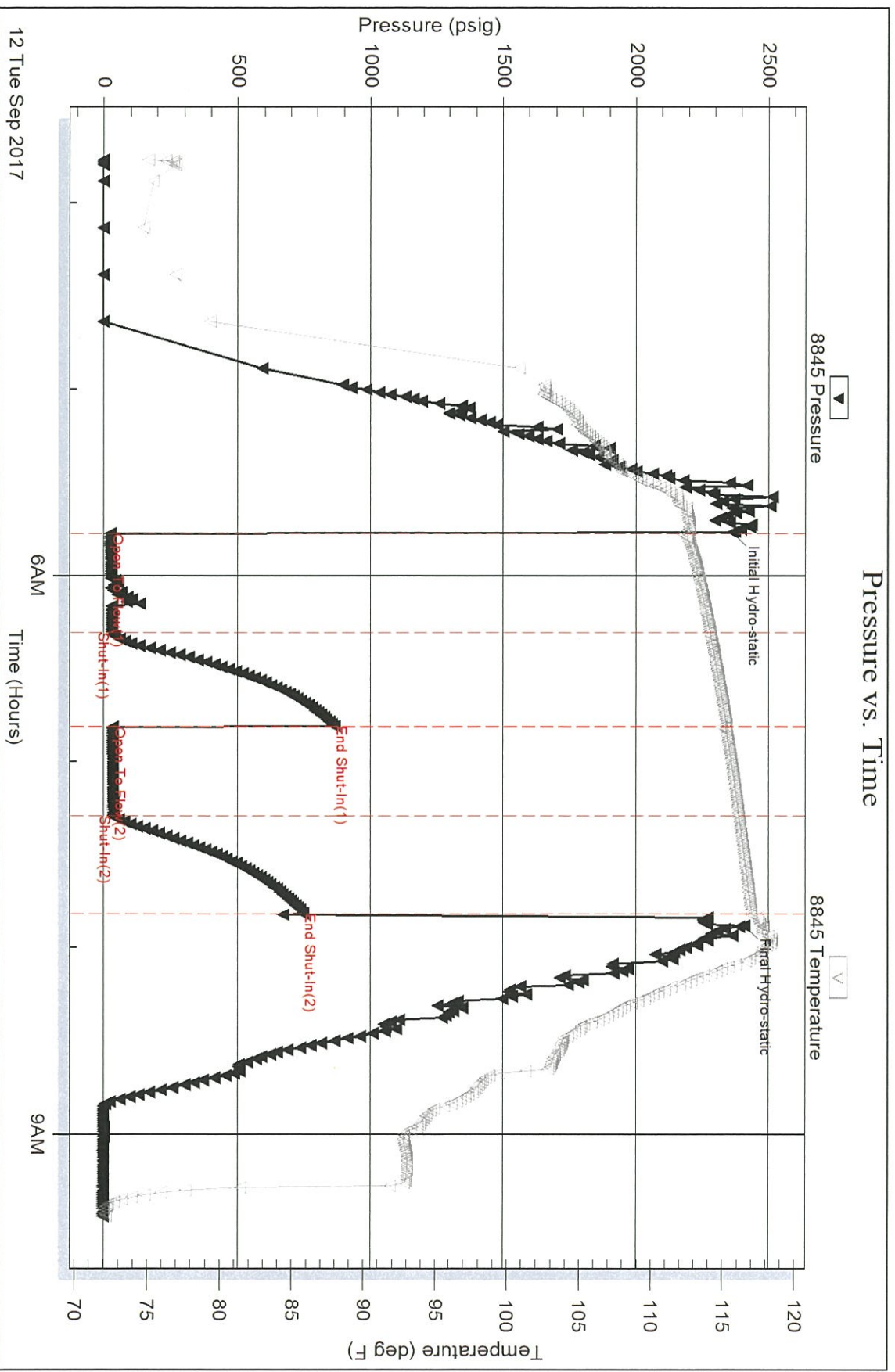
Recovery Comments:

Serial #: 8845

Outside Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64223

Printed: 2017.09.12 @ 09:50:44

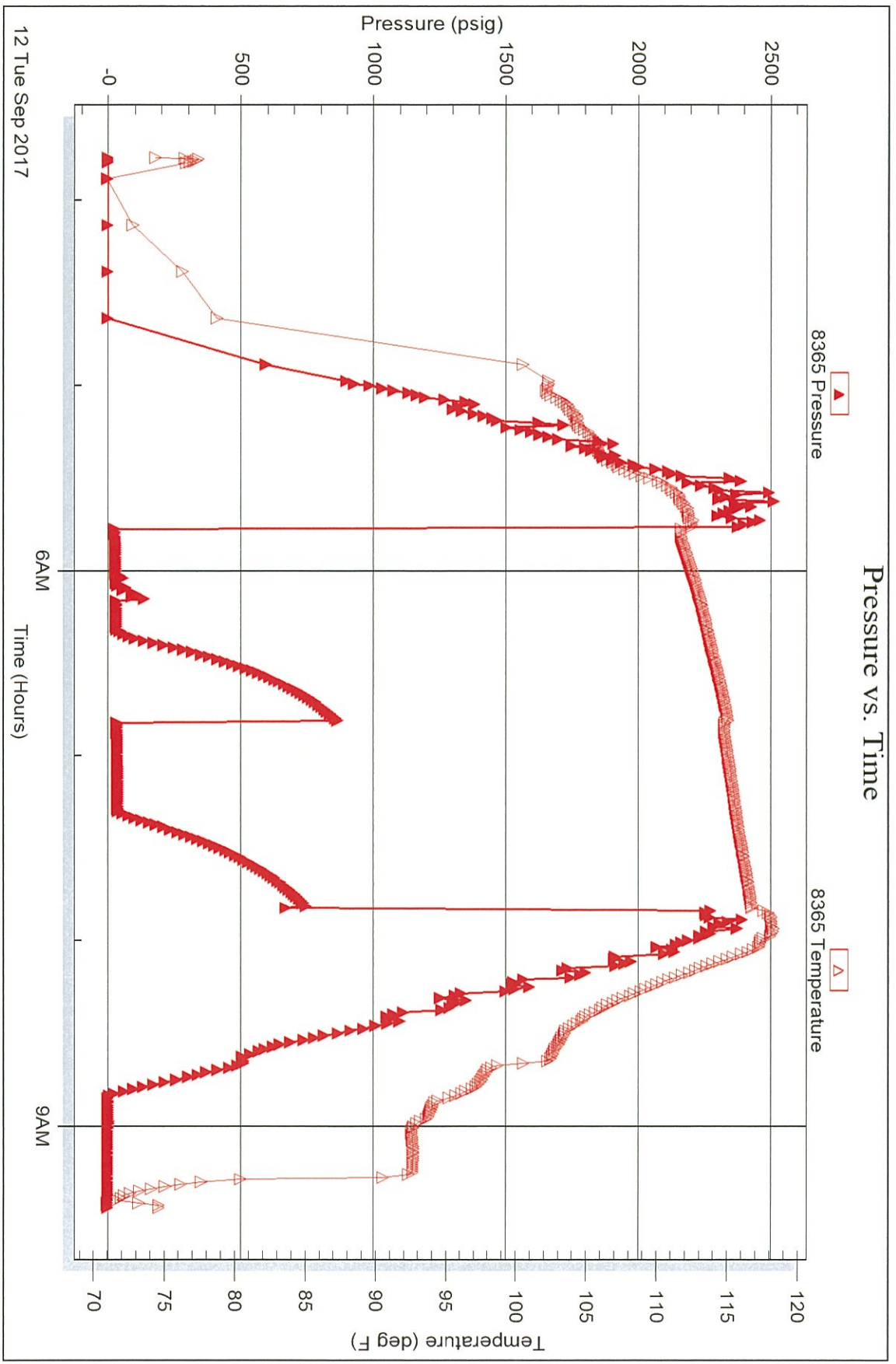
Serial #: 8365

Inside

Palomino Petroleum

Fotopoulos Unit #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64223

Printed: 2017.09.12 @ 09:50:44