



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1207757  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW
- Gas  D&A  ENHR  SIGW
- OG  GSW  Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

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

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD
- Plug Back  Conv. to GSW  Conv. to Producer
- Commingled Permit #: \_\_\_\_\_
- Dual Completion Permit #: \_\_\_\_\_
- SWD Permit #: \_\_\_\_\_
- ENHR Permit #: \_\_\_\_\_
- GSW Permit #: \_\_\_\_\_

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1207757

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	DSC 1
Doc ID	1207757

Tops

Name	Top	Datum
Anhy.	1967	(+ 583)
Base Anhy.	2004	(+ 546)
Heebner	3818	(-1268)
Lansing	3857	(-1309)
Stark	4094	(-1544)
BKC	4155	(-1605)
Ft. Scott	4360	(-1810)
Miss.	4464	(-1914)
LTD	4601	(-2051)



APR 14 2014

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142350  
Invoice Date: Apr 1, 2014  
Page: 1

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

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

Customer ID	Field Ticket #	Payment Terms	
Palo	62886	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-03	Great Bend	Apr 1, 2014	5/1/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	DSC #1		
123.00	CEMENT MATERIALS	Class A Common	17.90	2,201.70
82.00	CEMENT MATERIALS	Pozmix	9.35	766.70
7.00	CEMENT MATERIALS	Gel	23.40	163.80
52.00	CEMENT MATERIALS	Flo Seal	2.97	154.44
220.21	CEMENT SERVICE	Cubic Feet Charge	2.48	546.12
303.26	CEMENT SERVICE	Ton Mileage Charge	2.60	788.48
1.00	CEMENT SERVICE	Rotary Plug	2,249.84	2,249.84
33.00	CEMENT SERVICE	Pump Truck Mileage	7.70	254.10
33.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	145.20
1.00	CEMENT SUPERVISOR	Joshua Isaac		
1.00	EQUIPMENT OPERATOR	Ben Newell		
1.00	EQUIPMENT OPERATOR	Daniel Casper		

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

\$ 1,454.08

ONLY IF PAID ON OR BEFORE  
Apr 26, 2014

Subtotal	7,270.38
Sales Tax	556.18
Total Invoice Amount	7,826.56
Payment/Credit Applied	
<b>TOTAL</b>	<b>7,826.56</b>

# ALLIED OIL & GAS SERVICES, LLC 062886

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Greenville

DATE <u>4-1-14</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION <u>10:30 AM</u>	JOB START <u>3:30 AM</u>	JOB FINISH <u>4:30 AM</u>
LEASE <u>DSC</u>	WELL # <u>1</u>	LOCATION <u>1E U'ica. 6 1/2 N - 25 E 100</u>			COUNTY <u>Texas</u>	STATE <u>TX</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Maurice 108

TYPE OF JOB Rotary Plug

HOLE SIZE 7 1/2 T.D.

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH 1991

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 11

PERFS. \_\_\_\_\_

DISPLACEMENT fresh water

EQUIPMENT

PUMP TRUCK CEMENTER Jose Isaac

# 366 HELPER Ben Maxwell

BULK TRUCK

# 821-112 DRIVER Dan Cooper

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

OWNER \_\_\_\_\_

CEMENT

AMOUNT ORDERED 205 60/40 40 gal

11 fls

COMMON	<u>123</u>	@ <u>17.90</u>	<u>2,201.70</u>
POZMIX	<u>82</u>	@ <u>9.35</u>	<u>766.70</u>
GEL	<u>7</u>	@ <u>23.40</u>	<u>163.80</u>
CHLORIDE		@ _____	_____
ASC		@ _____	_____
<u>fls</u>	<u>52</u>	@ <u>2.97</u>	<u>154.44</u>
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
HANDLING	<u>220.21</u>	@ <u>2.48</u>	<u>546.13</u>
MILEAGE	<u>9.19 x 33 x</u>	<u>2.60</u>	<u>788.50</u>
			TOTAL <u>4,621.26</u>

REMARKS:

On location - dig up - had safety meeting

Run 4 1/2 drill pipe - full hole with cement

#1-1991 - 25 SKS

#2- 96 - 100 RT-38 SKS

#3- 268 - 40

#4- 410 - 10

Plug down 4:30 AM

Plug down

SERVICE

DEPTH OF JOB	<u>1991</u>		
PUMP TRUCK CHARGE		<u>2249.84</u>	
EXTRA FOOTAGE		@ _____	_____
MILEAGE	<u>HUM 33</u>	@ <u>7.70</u>	<u>254.10</u>
MANIFOLD		@ _____	_____
	<u>HUM 33</u>	@ <u>4.40</u>	<u>145.20</u>
		@ _____	_____
			TOTAL <u>2,649.14</u>

CHARGE TO: Palovina Petroleum

STREET \_\_\_\_\_

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

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.

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

TOTAL CHARGES 7,270.40

DISCOUNT 1,454.98 IF PAID IN 30 DAYS

5,816.32

PRINTED NAME Michael Moore

SIGNATURE Michael Moore

Thank you !!



RECEIVED

APR 07 2014

# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 142237

Invoice Date: Mar 24, 2014

Page: 1

Voice: (817) 546-7282

Fax: (817) 246-3361

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

Customer ID	Field Ticket #	Payment Terms	
Palo	62524	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Oakley	Mar 24, 2014	4/23/14

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	DSC #1		
175.00	CEMENT MATERIALS	Class A Common	17.90	3,132.50
3.00	CEMENT MATERIALS	Gel	23.40	70.20
6.00	CEMENT MATERIALS	Chloride	64.00	384.00
189.23	CEMENT SERVICE	Cubic Feet Charge	2.48	469.29
561.60	CEMENT SERVICE	Ton Mileage Charge	2.60	1,460.16
1.00	CEMENT SERVICE	Surface	1,512.25	1,512.25
65.00	CEMENT SERVICE	Pump Truck Mileage	7.70	500.50
1.00	CEMENT SERVICE	Manifold Rental	275.00	275.00
65.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	286.00
1.00	CEMENT SUPERVISOR	LaRene Wentz		
1.00	CEMENT SUPERVISOR	Kelly Gabel		

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

\$ 1,617.98

ONLY IF PAID ON OR BEFORE

Apr 18, 2014

Subtotal	8,089.90
Sales Tax	274.38
Total Invoice Amount	8,364.28
Payment/Credit Applied	
<b>TOTAL</b>	<b>8,364.28</b>

# ALLIED OIL & GAS SERVICES, LLC 062524

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Oakley, KS

DATE <u>3-24-14</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION <u>8:20 pm</u>	JOB START <u>8:30 pm</u>	JOB FINISH <u>9:00 pm</u>
LEASE <u>DSC</u>	WELL# <u>1</u>	LOCATION <u>Utica Y2E, T1, E45</u>			COUNTY <u>Trego</u>	STATE <u>KS</u>	
OLD (OR NEW) (Circle one)				<u>info</u>			

CONTRACTOR <u>Maverick</u>	OWNER <u>same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/8</u>	T.D. <u>2241</u>
CASING SIZE <u>8 1/8</u>	DEPTH <u>224.55'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13.41661</u>	

CEMENT AMOUNT ORDERED 175 sks com 3% gel  
2% gel

COMMON	<u>175 sks</u>	@ <u>17.20</u>	<u>3132.50</u>
POZMIX		@	
GEL	<u>3 sks</u>	@ <u>23.40</u>	<u>70.20</u>
CHLORIDE	<u>6 sks</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Karane & Jennifer  
# 431 HELPER Kelly Gabel

BULK TRUCK DRIVER Travis Tamer (Travis)  
# 396/306

BULK TRUCK DRIVER \_\_\_\_\_  
# \_\_\_\_\_

HANDLING	<u>182.23 sks</u>	@ <u>2.48</u>	<u>469.29</u>
MILEAGE	<u>8.64 hrs</u>	@ <u>6.5 x 2.60</u>	<u>1460.16</u>
			TOTAL <u>5516.15</u>

REMARKS:

Mix 175 sks cement  
Displace with water  
Cement did circulate  
15 sks to pit

**SERVICE**

DEPTH OF JOB	<u>224.55'</u>		
PUMP TRUCK CHARGE			<u>1512.25</u>
EXTRA FOOTAGE		@	
MILEAGE <u>MITU</u>	<u>65</u>	@ <u>7.90</u>	<u>500.50</u>
MANIFOLD		@	<u>275.00</u>
<u>MITU</u>	<u>65</u>	@ <u>4.40</u>	<u>286.00</u>
		@	

CHARGE TO: Palomino Petroleum

STREET \_\_\_\_\_

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

TOTAL 2573.75

**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.

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

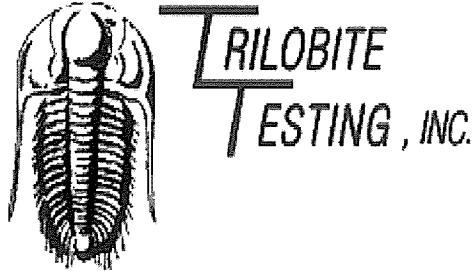
TOTAL CHARGES 8,089.90

DISCOUNT 1,617.98 IF PAID IN 30 DAYS

6,471.92 Net.

PRINTED NAME Ryan Bobb

SIGNATURE Ryan Bobb



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Jerry Smith

**DSC #1**

**30-15s-25w Trego,KS**

Start Date: 2014.03.30 @ 22:51:15

End Date: 2014.03.31 @ 08:38:00

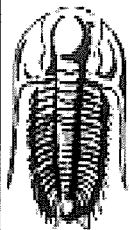
Job Ticket #: 56423                      DST #: 1

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

Printed: 2014.04.03 @ 15:59:11

Palomino Petroleum  
30-15s-25w Trego,KS  
DSC #1  
DST # 1  
Miss  
2014.03.30





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**30-15s-25w Trego,KS**

4924 SE 84th St.  
New ton KS 67114

**DSC #1**

Job Ticket: 56423

**DST#: 1**

ATTN: Jerry Smith

Test Start: 2014.03.30 @ 22:51:15

## GENERAL INFORMATION:

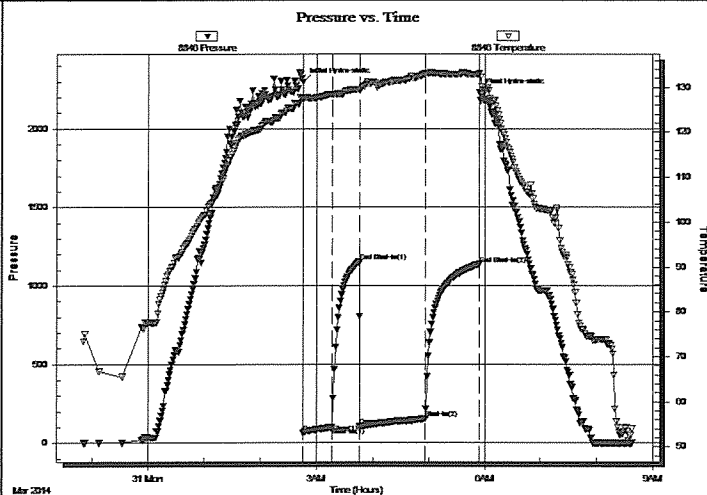
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:45:45  
 Time Test Ended: 08:38:00  
 Interval: **4401.00 ft (KB) To 4502.00 ft (KB) (TVD)**  
 Total Depth: 4602.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Mike Roberts  
 Unit No: 65  
 Reference Elevations: 2549.00 ft (KB)  
 2541.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8846

Inside

Press@RunDepth: 154.01 psig @ 4404.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.03.30 End Date: 2014.03.31 Last Calib.: 2014.03.31  
 Start Time: 22:51:15 End Time: 08:38:00 Time On Btm: 2014.03.31 @ 02:45:30  
 Time Off Btm: 2014.03.31 @ 05:54:30

TEST COMMENT: IF:Built to 4" blow  
 IS:No return blow  
 FF:Built to 2" blow  
 FS:No return blow



## PRESSURE SUMMARY

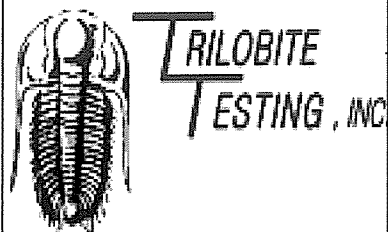
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2297.21	127.84	Initial Hydro-static
1	64.70	127.26	Open To Flow (1)
32	99.96	128.47	Shut-In(1)
60	1151.11	129.50	End Shut-In(1)
61	105.33	129.31	Open To Flow (2)
132	154.01	133.13	Shut-In(2)
189	1138.25	132.89	End Shut-In(2)
189	2229.86	133.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	w cm with oil spots 10% w 90% m	3.21

## Gas Rates

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



# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
ATTN: Jerry Smith

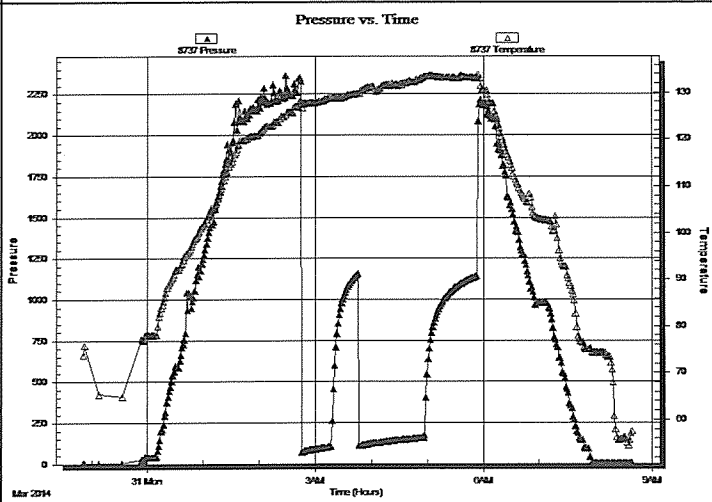
**30-15s-25w Trego,KS**  
**DSC #1**  
Job Ticket: 56423      **DST#: 1**  
Test Start: 2014.03.30 @ 22:51:15

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No    Whipstock:      ft (KB)  
Time Tool Opened: 02:45:45      Test Type: Conventional Bottom Hole (Initial)  
Time Test Ended: 08:38:00      Tester: Mike Roberts  
Unit No: 65  
Interval: **4401.00 ft (KB) To 4502.00 ft (KB) (TVD)**      Reference Elevations:      2549.00 ft (KB)  
Total Depth: 4602.00 ft (KB) (TVD)      2541.00 ft (CF)  
Hole Diameter: 7.88 inches    Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 8737**      **Outside**  
Press@RunDepth:      psig @      4404.00 ft (KB)      Capacity:      8000.00 psig  
Start Date:      2014.03.30      End Date:      2014.03.31      Last Calib.:      2014.03.31  
Start Time:      22:51:15      End Time:      08:38:15      Time On Btm:  
Time Off Btm:

TEST COMMENT: IF:Built to 4" blow  
IS:No return blow  
FF:Built to 2" blow  
FS:No return blow



## PRESSURE SUMMARY

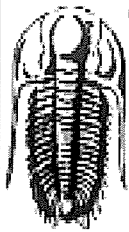
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	w cm with oil spots 10% w 90%m	3.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St.  
New ton KS 67114

ATTN: Jerry Smith

**30-15s-25w Trego,KS**

**DSC #1**

Job Ticket: 56423

**DST#: 1**

Test Start: 2014.03.30 @ 22:51:15

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:45:45

Time Test Ended: 08:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: **4401.00 ft (KB) To 4502.00 ft (KB) (TVD)**

Total Depth: 4602.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2549.00 ft (KB)

2541.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8646 Below (Straddle)**

Press@RunDepth: psig @ 4503.00 ft (KB)

Start Date: 2014.03.30

End Date:

2014.03.31

Start Time: 22:51:15

End Time:

08:37:45

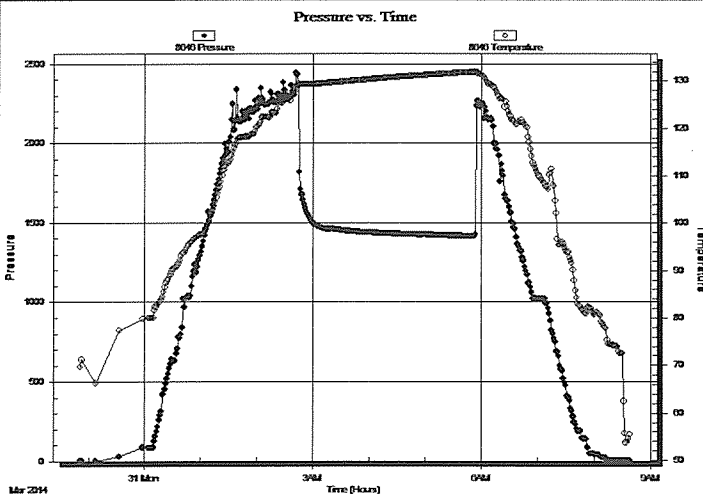
Capacity: 8000.00 psig

Last Calib.: 2014.03.31

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF:Built to 4" blow  
IS:No return blow  
FF:Built to 2" blow  
FS:No return blow



## PRESSURE SUMMARY

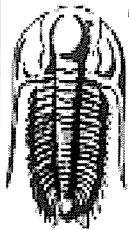
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
248.00	w cm with oil spots 10% w 90% m	3.21

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**30-15s-25w Trego,KS**

4924 SE 84th St.  
New ton KS 67114

**DSC #1**

Job Ticket: 56423

**DST#: 1**

ATTN: Jerry Smith

Test Start: 2014.03.30 @ 22:51:15

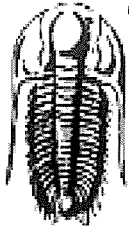
### Tool Information

Drill Pipe:	Length: 4352.00 ft	Diameter: 3.80 inches	Volume: 61.05 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4401.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	198.00 ft			
Tool Length:	222.00 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			4378.00	
Shut In Tool	5.00			4383.00	
Hydraulic tool	5.00			4388.00	
Jars	5.00			4393.00	
Safety Joint	3.00			4396.00	
Packer	5.00			4401.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4401.00	
Stubb	1.00			4402.00	
Perforations	2.00			4404.00	
Recorder	0.00	8846	Inside	4404.00	
Recorder	0.00	8737	Outside	4404.00	
Blank Spacing	63.00			4467.00	
Perforations	29.00			4496.00	
Blank Off Sub	1.00			4497.00	198.00 Tool Interval
Packer	3.00			4500.00	
Packer - Shale	0.00			4500.00	
Stubb	1.00			4501.00	
Perforations	1.00			4502.00	
Change Over Sub	1.00			4503.00	
Recorder	0.00	8646	Below	4503.00	
Blank Spacing	93.00			4596.00	
Change Over Sub	1.00			4597.00	
Bullnose	2.00			4599.00	1000221.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>222.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**30-15s-25w Trego,KS**

4924 SE 84th St.  
New ton KS 67114

**DSC #1**

Job Ticket: 56423

**DST#: 1**

ATTN: Jerry Smith

Test Start: 2014.03.30 @ 22:51:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.34 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	w cm w ith oil spots 10% w 90%m	3.206

Total Length: 248.00 ft

Total Volume: 3.206 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

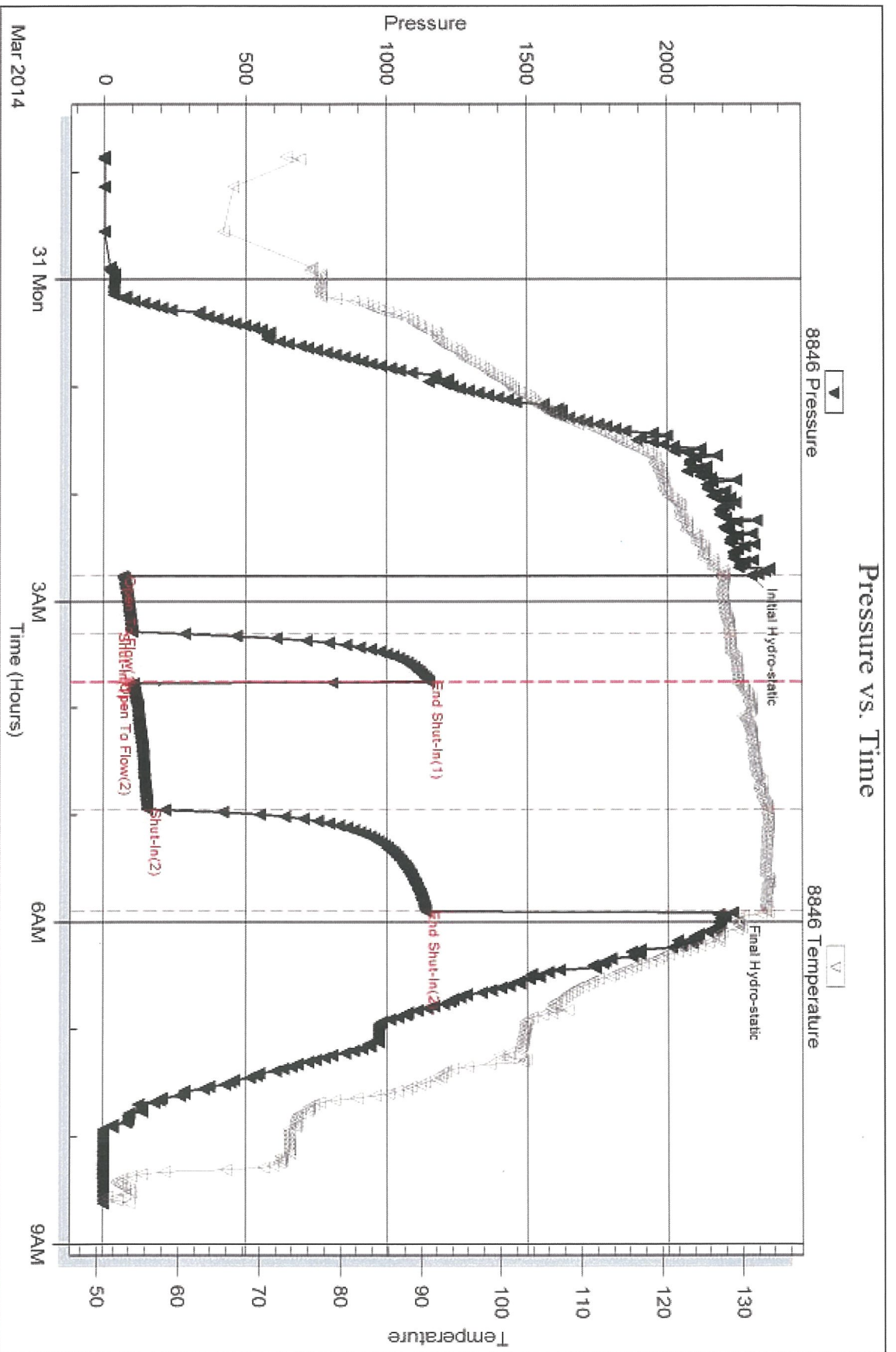
Serial #: 8846

Inside

Palominu Petroleum

DSC #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56423

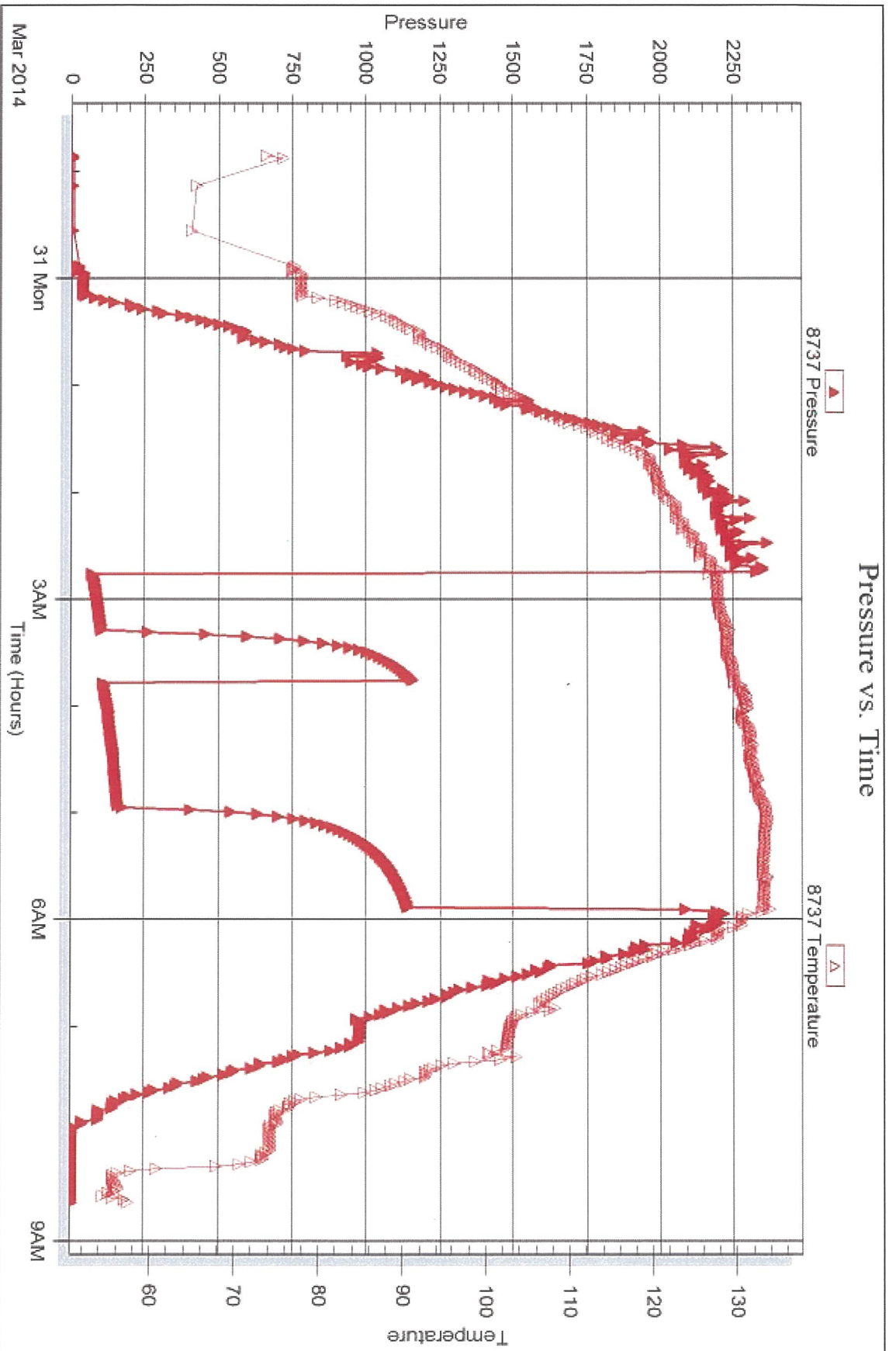
Printed: 2014.04.03 @ 15:59:13

Serial #: 8737

Outside Palomino Petroleum

DSC #1

DST Test Number: 1

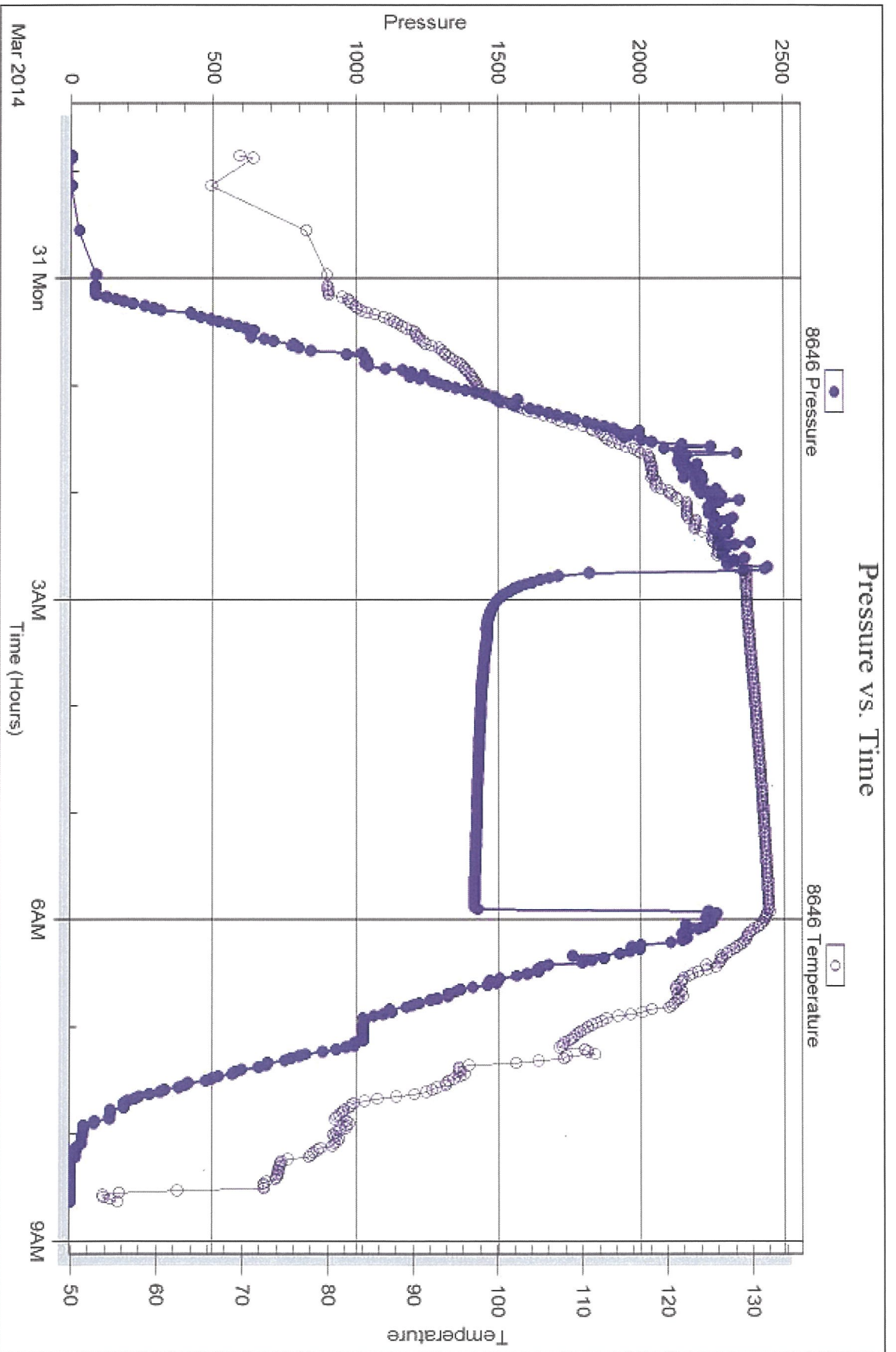


Serial #: 8646

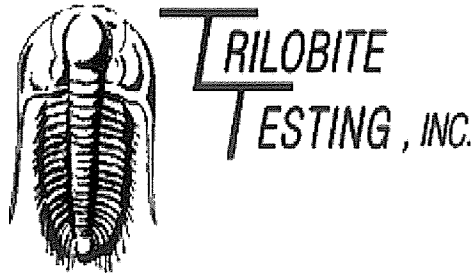
Below (Stratton) Petroleum

DSC #1

DST Test Number: 1







## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Jerry Smith

**DSC #1**

**30-15s-25w Trego,KS**

Start Date: 2014.03.31 @ 09:44:15

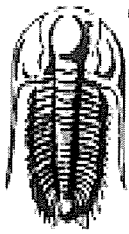
End Date: 2014.03.31 @ 17:19:30

Job Ticket #: 56424                      DST #: 2

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

Printed: 2014.04.03 @ 15:58:26

Palomino Petroleum  
30-15s-25w Trego,KS  
DSC #1  
DST # 2  
Ft. Scott  
2014.03.31



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
ATTN: Jerry Smith

**30-15s-25w Trego,KS**  
**DSC #1**  
Job Ticket: 56424      **DST#: 2**  
Test Start: 2014.03.31 @ 09:44:15

## GENERAL INFORMATION:

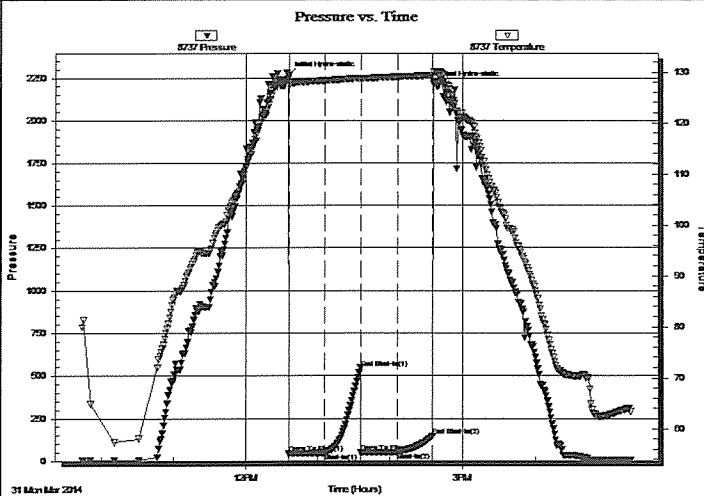
Formation: **Ft. Scott**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 12:35:45  
Time Test Ended: 17:19:30  
Interval: **4330.00 ft (KB) To 4391.00 ft (KB) (TVD)**  
Total Depth: 4602.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Straddle (Reset)  
Tester: Mike Roberts  
Unit No: 65  
Reference Elevations: 2549.00 ft (KB)  
2541.00 ft (CF)  
KB to GR/CF: 8.00 ft

## Serial #: 8737

Outside

Press@RunDepth: 49.61 psig @ 4333.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.03.31      End Date: 2014.03.31      Last Calib.: 2014.03.31  
Start Time: 09:44:15      End Time: 17:19:30      Time On Btm: 2014.03.31 @ 12:35:30  
Time Off Btm: 2014.03.31 @ 14:35:45

TEST COMMENT: IF:Built to 1/8" blow  
IS:No return blow  
FF:No blow  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.12	128.69	Initial Hydro-static
1	41.51	127.33	Open To Flow (1)
31	46.60	128.35	Shut-In(1)
60	543.61	128.83	End Shut-In(1)
60	48.39	128.57	Open To Flow (2)
91	49.61	129.08	Shut-In(2)
120	144.10	129.36	End Shut-In(2)
121	2210.12	130.14	Final Hydro-static

## Recovery

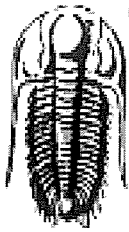
Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

4924 SE 84th St.  
New ton KS 67114

ATTN: Jerry Smith

**30-15s-25w Trego,KS**

**DSC #1**

Job Ticket: 56424

**DST#: 2**

Test Start: 2014.03.31 @ 09:44:15

### GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:35:45

Time Test Ended: 17:19:30

Test Type: Conventional Straddle (Reset)

Tester: Mike Roberts

Unit No: 65

Interval: **4330.00 ft (KB) To 4391.00 ft (KB) (TVD)**

Total Depth: 4602.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2549.00 ft (KB)

2541.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8646 Below (Straddle)**

Press@RunDepth: psig @ 4414.00 ft (KB)

Start Date: 2014.03.31

End Date: 2014.03.31

Start Time: 09:44:15

End Time: 17:19:30

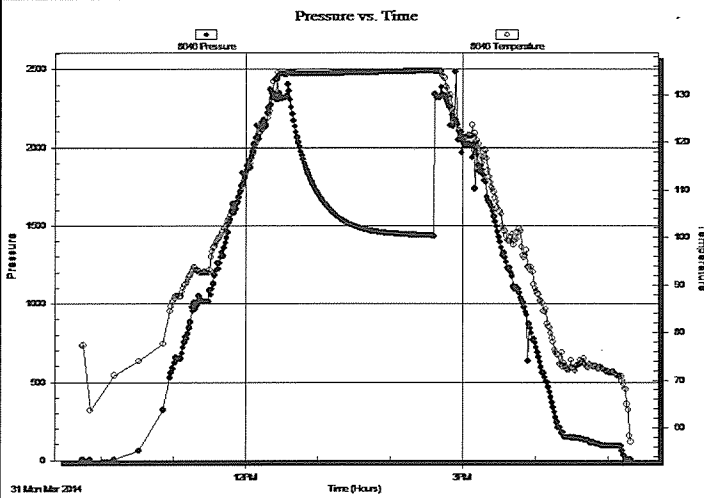
Capacity: 8000.00 psig

Last Calib.: 2014.03.31

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Built to 1/8" blow  
IS: No return blow  
FF: No blow  
FS: No return blow



### PRESSURE SUMMARY

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

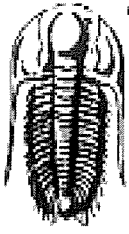
### Recovery

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

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
ATTN: Jerry Smith

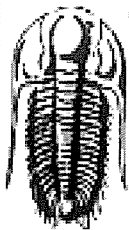
**30-15s-25w Trego,KS**  
**DSC #1**  
Job Ticket: 56424      **DST#: 2**  
Test Start: 2014.03.31 @ 09:44:15

**Tool Information**

Drill Pipe:	Length: 4290.00 ft	Diameter: 3.80 inches	Volume: 60.18 bbl	Tool Weight: 2500.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 60.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4330.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	4391.00 ft			
Interval between Packers:	61.00 ft			
Tool Length:	298.00 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			4307.00	
Shut In Tool	5.00			4312.00	
Hydraulic tool	5.00			4317.00	
Jars	5.00			4322.00	
Safety Joint	3.00			4325.00	
Packer	5.00			4330.00	24.00      Bottom Of Top Packer
Packer - Shale	0.00			4330.00	
Stubb	1.00			4331.00	
Perforations	2.00			4333.00	
Recorder	0.00	8846	Inside	4333.00	
Recorder	0.00	8737	Outside	4333.00	
Blank Spacing	32.00			4365.00	
Perforations	25.00			4390.00	
Blank Off Sub	1.00			4391.00	61.00      Tool Interval
Packer	3.00			4394.00	
Packer - Shale	0.00			4394.00	
Stubb	1.00			4395.00	
Perforations	18.00			4413.00	
Change Over Sub	1.00			4414.00	
Recorder	0.00	8646	Below	4414.00	
Blank Spacing	187.00			4601.00	
Change Over Sub	1.00			4602.00	
Bullnose	2.00			4604.00	213.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>298.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**30-15s-25w Trego,KS**

4924 SE 84th St.  
New ton KS 67114

**DSC #1**

Job Ticket: 56424

**DST#: 2**

ATTN: Jerry Smith

Test Start: 2014.03.31 @ 09:44:15

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.37 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 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:

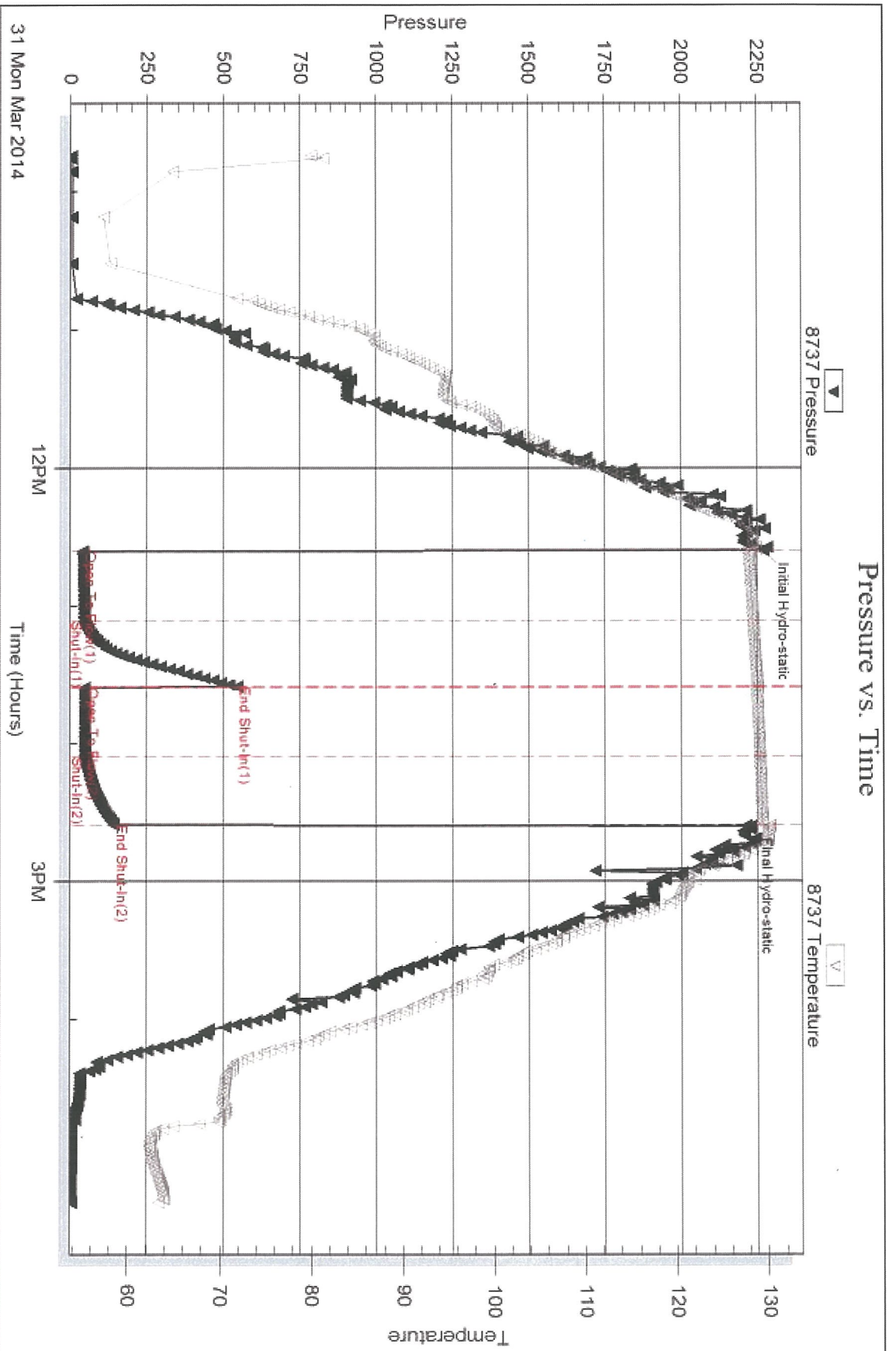
Serial #: 8737

Outside

Palomino Petroleum

DSC #1

DST Test Number: 2



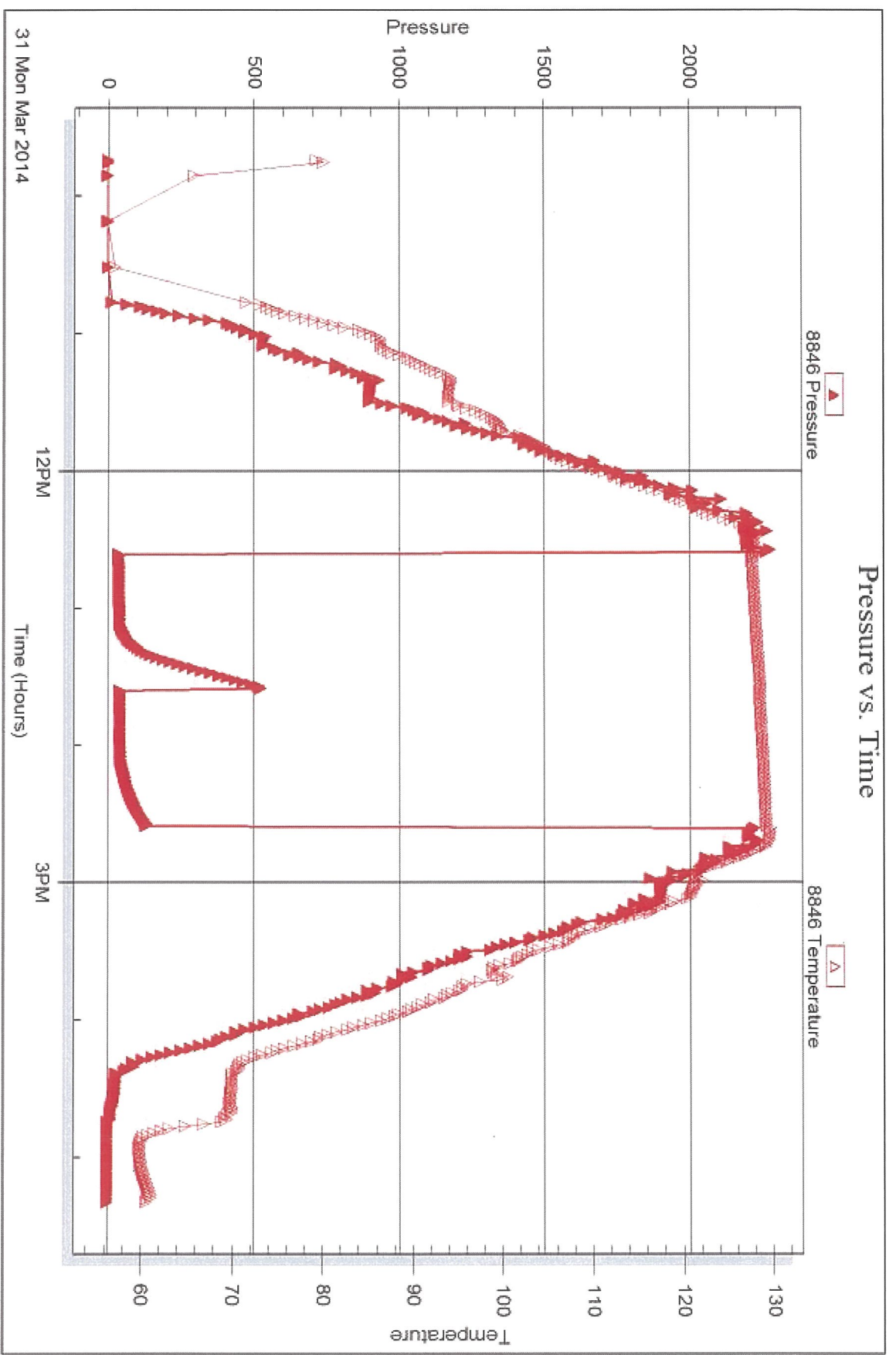
Serial #: 8846

Inside

Palomino Petroleum

DSC #1

DST Test Number: 2



Tribolite Testing, Inc

Ref. No: 56424

Printed: 2014.04.03 @ 15:58:29

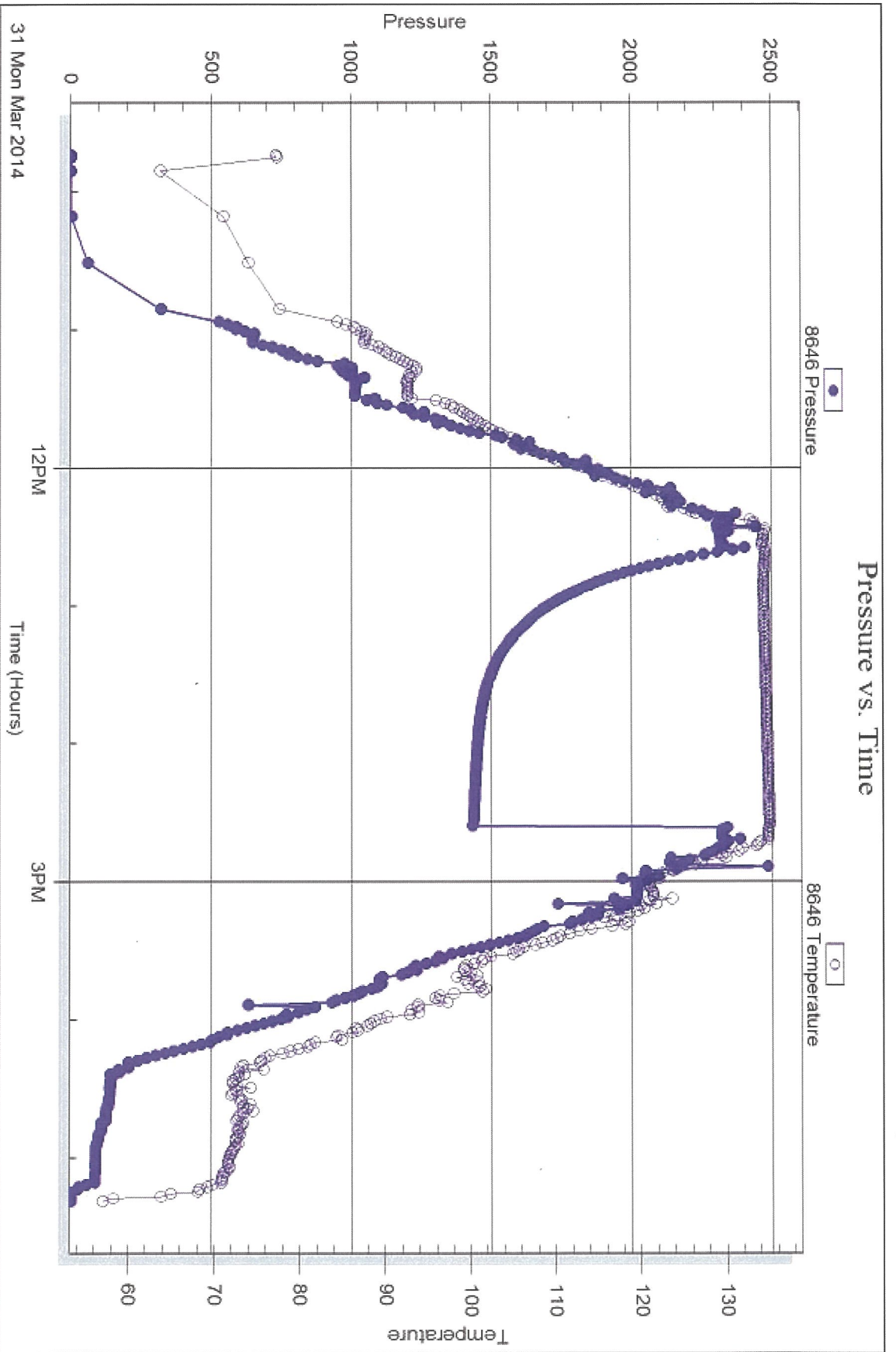


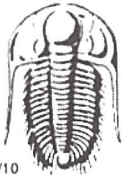
Serial #: 8646

Below (Stratton) Petroleum

DSC #1

DST Test Number: 2





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

87377 TOP  
8846 BTM  
8648

## Test Ticket

NO. 56423

Well Name & No. #1 DSC Test No. 1 Date 3-30-14  
 Company Palomino Petroleum Inc Elevation 2550 KB 2551 GL  
 Address 4924 SE 84th St. Newton KS 67114  
 Co. Rep / Geo. Terry Smith Rig Maverick 108  
 Location: Sec. 30 Twp. 15 Rge. 25W Co. Trego State KS

Interval Tested 4401-4502- 4601 Zone Tested Miss  
 Anchor Length 101 - Tail 99 Drill Pipe Run 4352 Mud Wt. 9.7  
 Top Packer Depth 4396 Drill Collars Run 30 Vis 54  
 Bottom Packer Depth 4401 Wt. Pipe Run Ø WL 12.4  
 Total Depth ~~4502~~ 4601 Chlorides 6500 ppm System LCM Ø

Blow Description IF: Built to 4" Blow  
FS: No Return Blow  
FF: Built to 2" Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>248</u>	<u>WCM with oil spots</u>			<u>10</u>	<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 248 BHT 132 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>2297</u>	<input checked="" type="checkbox"/> Test <u>1250.00</u>	T-On Location <u>21:30</u>
(B) First Initial Flow <u>64</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>22:51</u>
(C) First Final Flow <u>99</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>02:45</u>
(D) Initial Shut-In <u>1151</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>05:45</u>
(E) Second Initial Flow <u>105</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>08:38</u>
(F) Second Final Flow <u>154</u>	<input checked="" type="checkbox"/> Mileage <u>120 RT 186.00</u>	Comments
(G) Final Shut-In <u>1138</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2229</u>	<input checked="" type="checkbox"/> Straddle <u>600.00</u> <del>250.00</del>	<input type="checkbox"/> Ruined Shale Packer

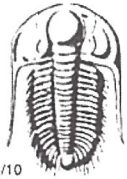
Initial Open 30  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 60

Shale Packer 250.00  
 Extra Packer 250.00  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total Ø 861.00

Approved By [Signature] Our Representative Mike Roberts

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. 56424

Well Name & No. #1 DSC Test No. 2 Date 3-31-14  
 Company Palomino Petroleum Inc Elevation 2550 KB 2541 GL  
 Address 4924 SE 84th St. Newton KS 67114  
 Co. Rep / Geo. Jerry Smith Rig Maverick 108  
 Location: Sec. 30 Twp. 15 Rge. 25W Co. Trego State KS

Interval Tested 4330-4391 ~~4601~~ Zone Tested Fl. Scott  
 Anchor Length 61 Drill Pipe Run 4290 Mud Wt. 9.7  
 Top Packer Depth 4325 Drill Collars Run 30 Vis 54  
 Bottom Packer Depth 4330 Wt. Pipe Run Ø WL 12.4  
 Total Depth 4601 Chlorides 6500 ppm System LCM Ø  
 Blow Description FF: Built to 1/8" Blow  
IS: No Return Blow  
FF: NO Blow  
IS: No Return Blow

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	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 130 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic <u>2266</u>	<input checked="" type="checkbox"/> Test <u>1250.00</u>	T-On Location <u>09:00</u>
(B) First Initial Flow <u>41</u>	<input checked="" type="checkbox"/> Jars <u>250.00</u>	T-Started <u>09:44</u>
(C) First Final Flow <u>46</u>	<input checked="" type="checkbox"/> Safety Joint <u>75.00</u>	T-Open <u>12:35</u>
(D) Initial Shut-In <u>543</u>	<input checked="" type="checkbox"/> Circ Sub	T-Pulled <u>14:35</u>
(E) Second Initial Flow <u>48</u>	<input checked="" type="checkbox"/> Hourly Standby	T-Out <u>17:19</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>120 RT</u> <u>186.00</u>	Comments
(G) Final Shut-In <u>144</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2210</u>	<input checked="" type="checkbox"/> Straddle <u>600.00</u>	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250.00</u>	<input type="checkbox"/> Ruined Packer
	<input checked="" type="checkbox"/> Extra Packer <u>250.00</u>	<input type="checkbox"/> Extra Copies
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2675</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>30</u>	Sub Total <u>2675</u> <u>\$2861.00</u>	

Approved By [Signature] Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or 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.