



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1217418  
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<br>Recompletion Date | Date Reached TD | Completion Date or<br>Recompletion Date |
|-----------------------------------|-----------------|-----------------------------------------|

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: \_\_\_\_\_

1217418

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<br><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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><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)* \_\_\_\_\_

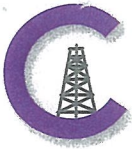
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   |           |         |             |               |         |

|                                                                                                                                                                          |                                                                                                                                                                                                                                                                                     |                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|

|           |                          |
|-----------|--------------------------|
| Form      | ACO1 - Well Completion   |
| Operator  | Palomino Petroleum, Inc. |
| Well Name | BBR 1                    |
| Doc ID    | 1217418                  |

Tops

| Name         | Top  | Datum   |
|--------------|------|---------|
| Anhy.        | 1757 | (+ 750) |
| Base Anhy.   | 1787 | (+ 720) |
| Heebner      | 3781 | (-1274) |
| Lansing      | 3825 | (-1218) |
| BKC          | 4133 | (-1626) |
| Marmaton     | 4156 | (-1649) |
| Pawnee       | 4254 | (-1747) |
| Ft. Scott    | 4325 | (-1818) |
| Cherokee Sh. | 4351 | (-1844) |
| Miss. Dol.   | 4426 | (-1919) |
| LTD          | 4551 | (-2044) |



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
**FINV**  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

RECEIVED

AUG 02 2014 MAIN OFFICE  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 269802

Invoice Date: 07/30/2014 Terms: 10/10/10,n/30

Page 1

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

BBR #1  
46612  
8-18-25  
7-19-14  
KS

| Description                 | Hours | Unit Price | Total   |
|-----------------------------|-------|------------|---------|
| P & A NEW WELL              | 1.00  | 1395.00    | 1395.00 |
| EQUIPMENT MILEAGE (ONE WAY) | 35.00 | 5.25       | 183.75  |

| Part Number | Description             | Qty    | Unit Price | Total   |
|-------------|-------------------------|--------|------------|---------|
| 1131        | 60/40 POZ MIX           | 230.00 | 15.8600    | 3647.80 |
| 1118B       | PREMIUM GEL / BENTONITE | 791.00 | .2700      | 213.57  |
| 1107        | FLO-SEAL (25#)          | 58.00  | 2.9700     | 172.26  |

| Sublet Performed | Description               | Total   |
|------------------|---------------------------|---------|
| 9995-130         | CEMENT EQUIPMENT DISCOUNT | -218.46 |
| 9996-130         | CEMENT MATERIAL DISCOUNT  | -403.37 |

| Description            | Hours | Unit Price | Total  |
|------------------------|-------|------------|--------|
| 529 MIN. BULK DELIVERY | 1.00  | 605.85     | 605.85 |

Amount Due 6466.29 if paid after 08/09/2014

|        |         |           |     |         |         |    |         |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 4033.63 | Freight:  | .00 | Tax:    | 223.25  | AR | 5819.65 |
| Labor: | .00     | Misc:     | .00 | Total:  | 5819.65 |    |         |
| Sublt: | -621.83 | Supplies: | .00 | Change: | .00     |    |         |

Signed \_\_\_\_\_

Date \_\_\_\_\_

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

269802

TICKET NUMBER 46612  
LOCATION Oakley, Ks-  
FOREMAN Daven

FIELD TICKET & TREATMENT REPORT  
CEMENT

| DATE                           | CUSTOMER # | WELL NAME & NUMBER | SECTION                   | TOWNSHIP | RANGE   | COUNTY |
|--------------------------------|------------|--------------------|---------------------------|----------|---------|--------|
| 7/19/14                        | 6285       | BBR #1             | 8                         | 18       | 25      | Ness   |
| CUSTOMER<br>Palomino Petroleum |            |                    | Lairal Wto Rd # 4 N Winto |          |         |        |
| MAILING ADDRESS                |            |                    | TRUCK #                   | DRIVER   | TRUCK # | DRIVER |
| CITY                           |            |                    | 731                       | Cory     |         |        |
| STATE                          |            |                    | 529                       | Jeff     |         |        |
| ZIP CODE                       |            |                    |                           |          |         |        |

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4550 CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE 4 1/2, 1770 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 12.5 To B SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_  
 REMARKS: Safety Meeting Rig up on WW-8 Plug as Ordered

1770' - 50 SKS  
990' - 80 SKS  
240' - 50 SKS      230 SKS 6/40 4% Gel 1/4 Floseal  
60' - 20 SKS  
Plug Rathole - 30 SKS

Thanks Daven & Crew

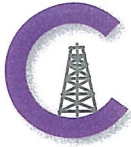
| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE      | TOTAL     |
|--------------|-------------------|------------------------------------|-----------------|-----------|
| 5405#        | 1                 | PUMP CHARGE                        | \$1395.00       | \$1395.00 |
| 5406         | 35                | MILEAGE                            | \$5.25          | \$183.75  |
| 5407         | 9.89              | Ton Mileage Delivery               | \$61.75         | \$605.85  |
| 1131         | 230 SKS           | 6/40 Poz mix                       | \$15.86         | \$3647.80 |
| 118B         | 791 #             | Bentonite                          | \$0.27          | \$213.57  |
| 1107         | 58 #              | Floseal                            | \$2.97          | \$172.26  |
|              |                   |                                    | SubTotal        | \$6218.23 |
|              |                   |                                    | Less 10%        | \$621.82  |
|              |                   |                                    | SubTotal        | \$5596.41 |
|              |                   |                                    | SALES TAX       | 223.25    |
|              |                   |                                    | ESTIMATED TOTAL | \$5819.66 |

completed

Ravin 3737

AUTHORIZATION \_\_\_\_\_ 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.



**CONSOLIDATED**  
Oil Well Services, LLC

**REMIT TO**  
FINV  
Consolidated Oil Well Services, LLC  
Dept. 970  
P.O. Box 4346  
Houston, TX 77210-4346

**RECEIVED**

**JUL 21 2014**

**MAIN OFFICE**  
P.O. Box 884  
Chanute, KS 66720  
620/431-9210 • 1-800/467-8676  
Fax 620/431-0012

INVOICE

Invoice # 269411

Invoice Date: 07/18/2014 Terms: 10/10/10,n/30

Page 1

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

BBR #1  
46771  
8-18-25  
7-11-14  
KS

| Part Number | Description             | Qty    | Unit Price | Total   |
|-------------|-------------------------|--------|------------|---------|
| 1104S       | CLASS "A" CEMENT (SALE) | 165.00 | 18.5500    | 3060.75 |
| 1102        | CALCIUM CHLORIDE (50#)  | 465.00 | .9400      | 437.10  |
| 1118B       | PREMIUM GEL / BENTONITE | 310.00 | .2700      | 83.70   |

| Sublet Performed | Description               | Total   |
|------------------|---------------------------|---------|
| 9995-130         | CEMENT EQUIPMENT DISCOUNT | -180.87 |
| 9996-130         | CEMENT MATERIAL DISCOUNT  | -358.16 |

| Description                     | Hours | Unit Price | Total   |
|---------------------------------|-------|------------|---------|
| 397 TON MILEAGE DELIVERY        | 1.00  | 474.95     | 474.95  |
| 399 CEMENT PUMP (SURFACE)       | 1.00  | 1150.00    | 1150.00 |
| 399 EQUIPMENT MILEAGE (ONE WAY) | 35.00 | 5.25       | 183.75  |

Amount Due 5610.52 if paid after 07/28/2014

|        |         |           |     |         |         |    |         |
|--------|---------|-----------|-----|---------|---------|----|---------|
| Parts: | 3581.55 | Freight:  | .00 | Tax:    | 198.24  | AR | 5049.46 |
| Labor: | .00     | Misc:     | .00 | Total:  | 5049.46 |    |         |
| Sublt: | -539.03 | Supplies: | .00 | Change: | .00     |    |         |

Signed \_\_\_\_\_ Date \_\_\_\_\_



**CONSOLIDATED**  
Oil Well Services, LLC

269411

TICKET NUMBER 46771

LOCATION Oakley, KS

FOREMAN Dane Retzlaff

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

| DATE                                  | CUSTOMER # | WELL NAME & NUMBER | SECTION                                   | TOWNSHIP | RANGE   | KS COUNTY |
|---------------------------------------|------------|--------------------|-------------------------------------------|----------|---------|-----------|
| 7-11-14                               | 6285       | BRR #1             | 8                                         | 18       | 25      | Ness      |
| CUSTOMER<br><u>Palomino Petroleum</u> |            |                    | Laird RD #1<br>North 4 miles<br>West into |          |         |           |
| MAILING ADDRESS                       |            |                    | TRUCK #                                   | DRIVER   | TRUCK # | DRIVER    |
| CITY                                  |            |                    | 399                                       | Mike     |         |           |
| STATE                                 |            |                    | 397                                       | Coody    |         |           |
| ZIP CODE                              |            |                    |                                           |          |         |           |

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 210 CASING SIZE & WEIGHT 8 3/8 34 LBS  
 CASING DEPTH 410 DRILL PIPE 4.5 TUBING NA OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20  
 DISPLACEMENT 12.4 DISPLACEMENT PSI 200 MIX PSI 100 RATE mix at 6085 Displace at 7085

REMARKS: Safety meeting. Rig up. Break circulation with rig pump. Mix 165 sks of Class A cement, 3% calcium chloride 2% bentonite. Displace 12.4 BBLs of water. Shut in. Wash pump & lines. Rig down. Cement did circulate.

Thanks Dane + crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL     |
|--------------|-------------------|------------------------------------|------------|-----------|
| 5401s        | 1                 | PUMP CHARGE                        |            |           |
| 5406         | 35                | MILEAGE                            | 1150.00    | 1150.00 ✓ |
| 5407A        | 7.75              | Ton Mileage Delivery               | 5.25       | 183.75 ✓  |
|              |                   |                                    | 1.75       | 474.95 ✓  |
| 1104s        | 165 sks           | Class A cement                     | 18.55      | 3060.75 ✓ |
| 1102         | 465               | Calcium chloride                   | .94        | 437.10 ✓  |
| 1118B        | 310               | Bentonite                          | .27        | 83.70 ✓   |
|              |                   |                                    | Sub        | 5390.25 ✓ |
|              |                   |                                    | 10%        | 539.03 ✓  |
|              |                   |                                    | Total      | 4851.22 ✓ |

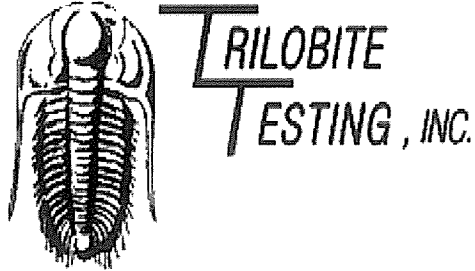
**completed**

AUTHORIZATION

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

SALES TAX ESTIMATED TOTAL 198.24  
5049.46 ✓

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.



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Ryan Seib

**BBR #1**

**8-18s-25w Ness,KS**

Start Date: 2014.07.16 @ 08:42:00

End Date: 2014.07.16 @ 15:15:30

Job Ticket #: 59129                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.21 @ 10:14:46

Palomino Petroleum

8-18s-25w Ness,KS

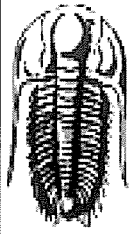
BBR #1

DST # 1

Marmaton

2014.07.16





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
ATTN: Ryan Seib

**8-18s-25w Ness, KS**  
**BBR #1**  
Job Ticket: 59129      **DST#: 1**  
Test Start: 2014.07.16 @ 08:42:00

## GENERAL INFORMATION:

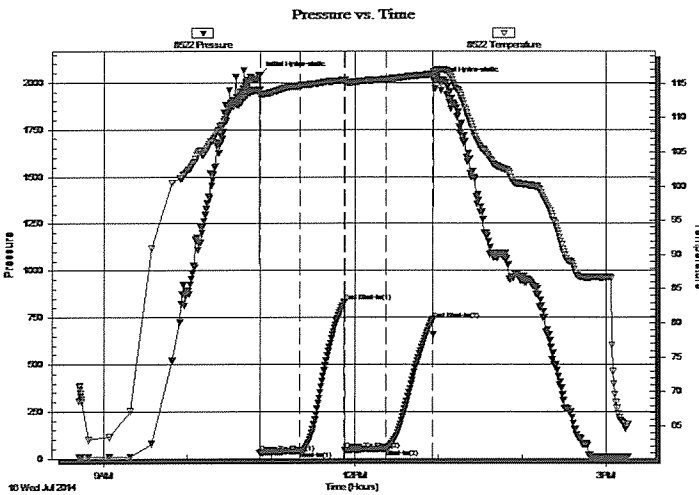
Formation: **Marmaton**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 10:51:45  
Time Test Ended: 15:15:30  
Interval: **4127.00 ft (KB) To 4270.00 ft (KB) (TVD)**  
Total Depth: 4270.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Bradley Walter  
Unit No: 69  
Reference Elevations: 2507.00 ft (KB)  
2502.00 ft (CF)  
KB to GR/CF: 5.00 ft

## Serial #: 8522

Outside

Press@RunDepth: 51.86 psig @ 4128.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.07.16      End Date: 2014.07.16      Last Calib.: 2014.07.16  
Start Time: 08:42:05      End Time: 15:15:29      Time On Btm: 2014.07.16 @ 10:51:30  
Time Off Btm: 2014.07.16 @ 12:56:30

TEST COMMENT: 30: 1" blow .  
30: No return.  
30: Surface blow .  
30: No return.



## PRESSURE SUMMARY

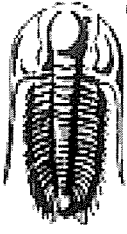
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2039.77         | 114.06       | Initial Hydro-static |
| 1           | 29.98           | 113.20       | Open To Flow (1)     |
| 29          | 41.91           | 114.66       | Shut-In(1)           |
| 62          | 833.64          | 115.46       | End Shut-In(1)       |
| 62          | 45.07           | 115.12       | Open To Flow (2)     |
| 91          | 51.86           | 115.62       | Shut-In(2)           |
| 125         | 737.92          | 116.35       | End Shut-In(2)       |
| 125         | 2010.84         | 116.74       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 50.00       | Mud 100m (oil specs in tool) | 0.25         |
|             |                              |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |

## 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: Ryan Seib

**8-18s-25w Ness,KS**  
**BBR #1**  
Job Ticket: 59129      **DST#: 1**  
Test Start: 2014.07.16 @ 08:42:00

### GENERAL INFORMATION:

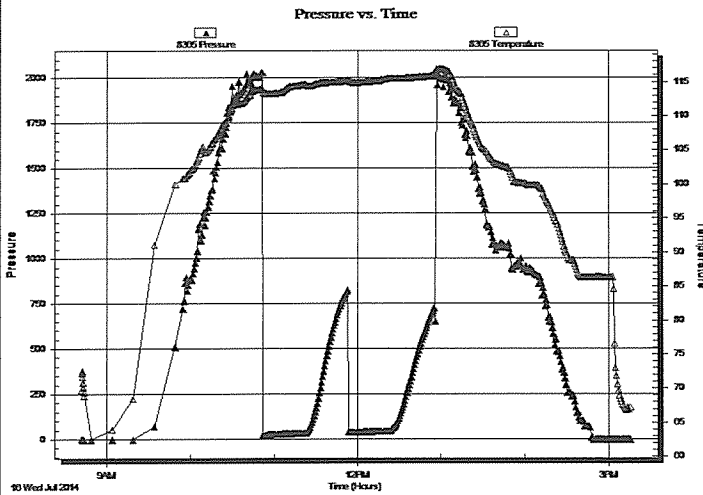
Formation: **Marmaton**  
Deviated: No    Whipstock:                  ft (KB)                  Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 10:51:45                  Tester: Bradley Walter  
Time Test Ended: 15:15:30                  Unit No: 69  
  
Interval: **4127.00 ft (KB) To 4270.00 ft (KB) (TVD)**                  Reference Elevations: 2507.00 ft (KB)  
Total Depth: 4270.00 ft (KB) (TVD)                  2502.00 ft (CF)  
Hole Diameter: 7.88 inchesHole Condition: Good                  KB to GR/CF: 5.00 ft

### Serial #: 8365

Inside

Press@RunDepth:                  psig @ 4128.00 ft (KB)                  Capacity: 8000.00 psig  
Start Date: 2014.07.16                  End Date: 2014.07.16                  Last Calib.: 2014.07.16  
Start Time: 08:42:05                  End Time: 15:15:29                  Time On Btm:  
Time Off Btm:

TEST COMMENT: 30: 1" blow .  
30: No return.  
30: Surface blow .  
30: No return.



### PRESSURE SUMMARY

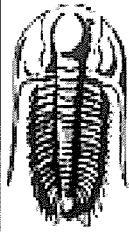
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |    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

### Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 50.00       | Mud 100m (oil specs in tool) | 0.25         |
|             |                              |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |
|             |                              |              |

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59129

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2014.07.16 @ 08:42:00

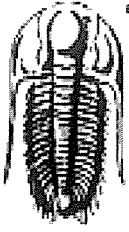
## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4004.00 ft | Diameter: 3.80 inches | Volume: 56.17 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: 121.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 75000.00 lb  |
|                           |                    |                       | <u>Total Volume: 56.77 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                                | String Weight: Initial 58000.00 lb |
| Depth to Top Packer:      | 4127.00 ft         |                       |                                | Final 58000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 143.00 ft          |                       |                                |                                    |
| Tool Length:              | 170.00 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        |            |          | 4101.00    |                                |
| Shut In Tool     | 5.00        |            |          | 4106.00    |                                |
| Hydraulic tool   | 5.00        |            |          | 4111.00    |                                |
| Jars             | 5.00        |            |          | 4116.00    |                                |
| Safety Joint     | 2.00        |            |          | 4118.00    |                                |
| Packer           | 5.00        |            |          | 4123.00    | 27.00 Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 4127.00    |                                |
| Stubb            | 1.00        |            |          | 4128.00    |                                |
| Recorder         | 0.00        | 8365       | Inside   | 4128.00    |                                |
| Recorder         | 0.00        | 8522       | Outside  | 4128.00    |                                |
| Perforations     | 10.00       |            |          | 4138.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4139.00    |                                |
| Drill Pipe       | 127.00      |            |          | 4266.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4267.00    |                                |
| Bullnose         | 3.00        |            |          | 4270.00    | 143.00 Bottom Packers & Anchor |

**Total Tool Length: 170.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59129

**DST#: 1**

ATTN: Ryan Seib

Test Start: 2014.07.16 @ 08:42:00

## Mud and Cushion Information

|                                  |                            |                       |
|----------------------------------|----------------------------|-----------------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API: 39 deg API   |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: 0 ppm |
| Viscosity: 53.00 sec/qt          | Cushion Volume: bbl        |                       |
| Water Loss: 6.79 in <sup>3</sup> | Gas Cushion Type:          |                       |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                       |
| Salinity: 2100.00 ppm            |                            |                       |
| Filter Cake: 1.00 inches         |                            |                       |

## Recovery Information

Recovery Table

| Length<br>ft | Description                  | Volume<br>bbl |
|--------------|------------------------------|---------------|
| 50.00        | Mud 100m (oil specs in tool) | 0.246         |

Total Length: 50.00 ft      Total Volume: 0.246 bbl

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

Laboratory Name:      Laboratory Location:

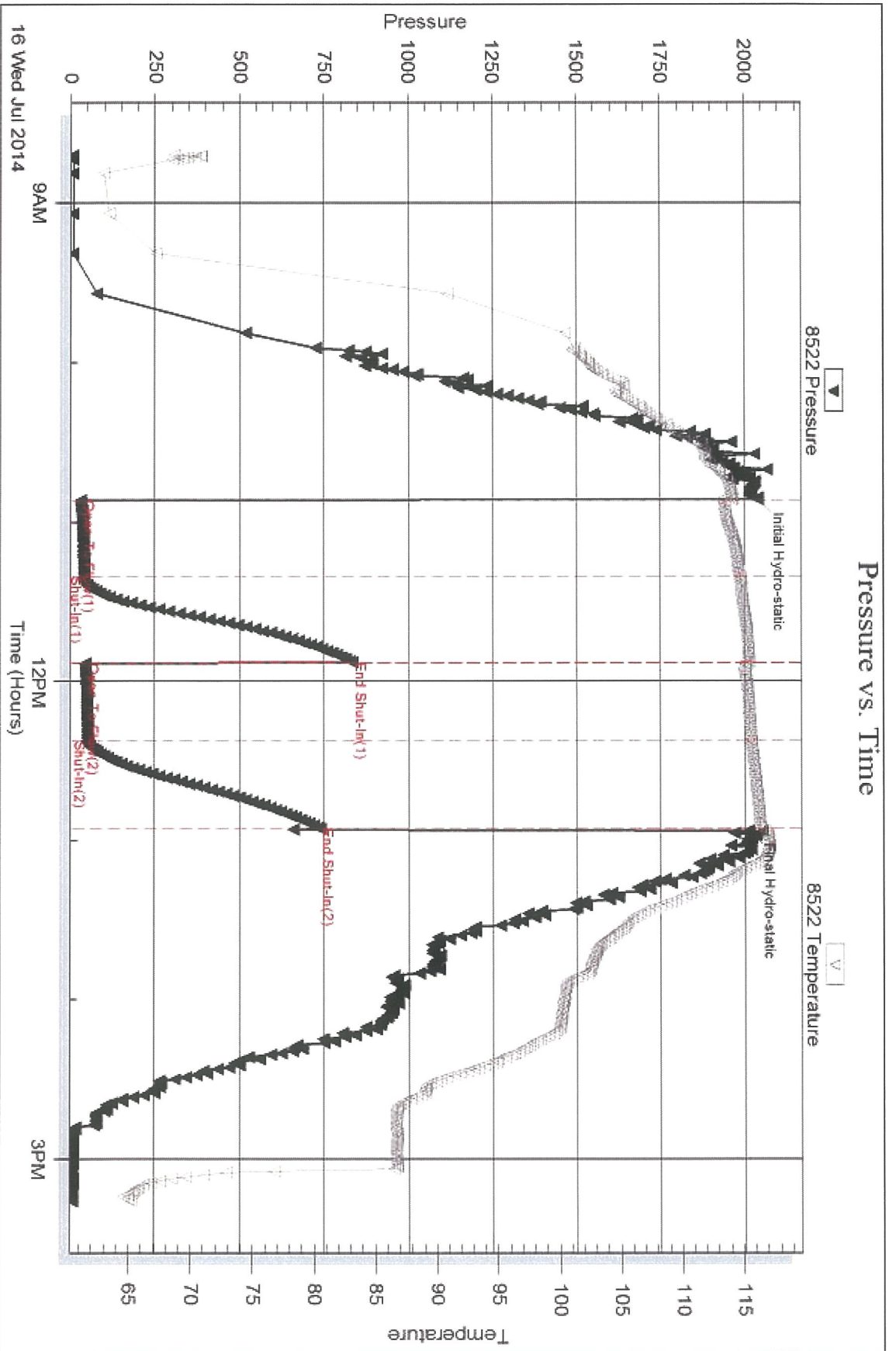
Recovery Comments:

Serial #: 8522

Outside Palominio Petroleum

BBR #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59129

Printed: 2014.07.21 @ 10:14:47

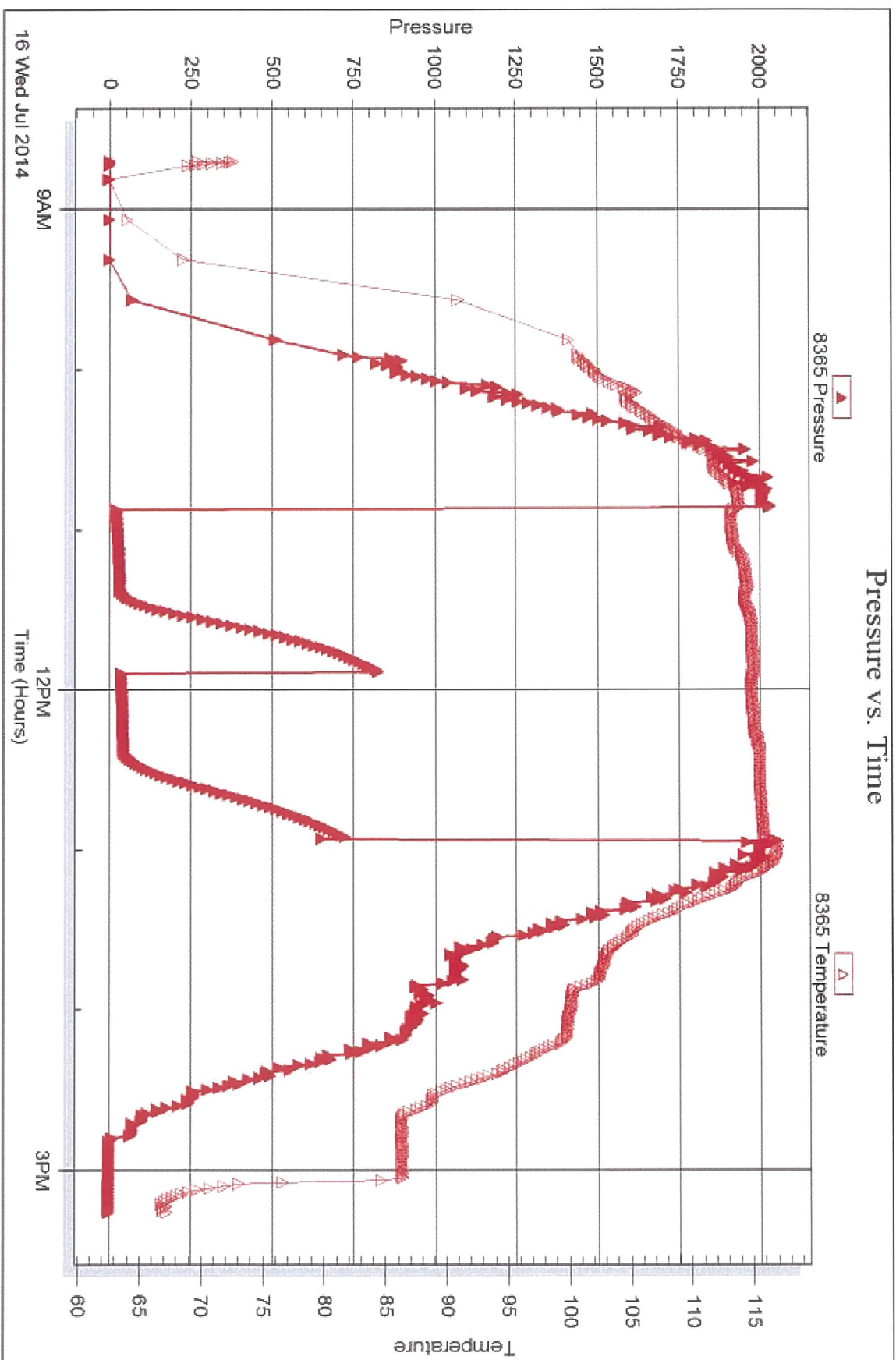
Serial #: 8365

Inside

Palomino Petroleum

BBR #1

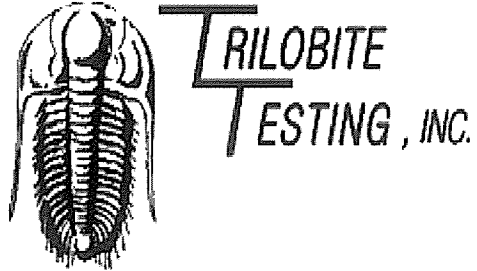
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59129

Printed: 2014.07.21 @ 10:14:47



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Ryan Seib

**BBR #1**

**8-18s-25w Ness,KS**

Start Date: 2014.07.17 @ 07:39:00

End Date: 2014.07.17 @ 13:32:15

Job Ticket #: 59130                      DST #: 2

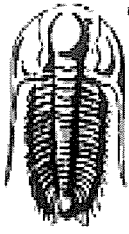
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.07.21 @ 10:14:23

Palomino Petroleum    8-18s-25w Ness,KS    BBR #1    DST # 2    Mississippian    2014.07.17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum  
 4924 SE 84th St.  
 Newton KS 67114  
 ATTN: Ryan Seib

**8-18s-25w Ness, KS**  
**BBR #1**  
 Job Ticket: 59130      **DST#: 2**  
 Test Start: 2014.07.17 @ 07:39:00

## GENERAL INFORMATION:

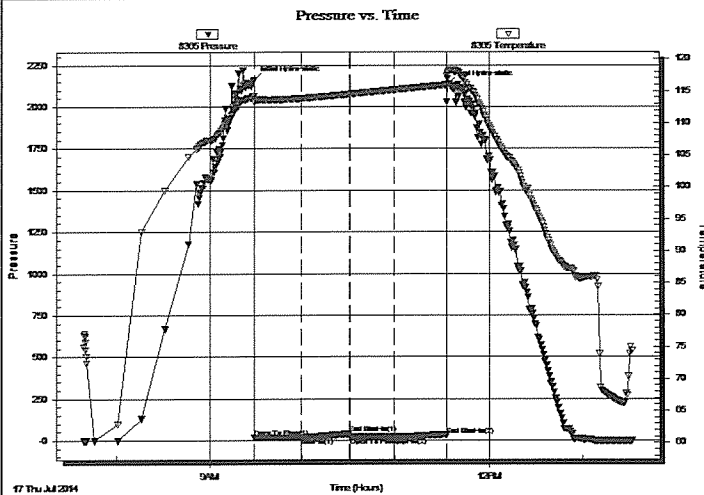
Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 09:29:00  
 Time Test Ended: 13:32:15  
 Interval: **4348.00 ft (KB) To 4437.00 ft (KB) (TVD)**  
 Total Depth: 4437.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2507.00 ft (KB)  
 2502.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8365

Inside

Press@RunDepth: 19.91 psig @ 4349.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.07.17      End Date: 2014.07.17      Last Calib.: 2014.07.17  
 Start Time: 07:39:05      End Time: 13:32:14      Time On Btm: 2014.07.17 @ 09:28:45  
 Time Off Btm: 2014.07.17 @ 11:33:15

TEST COMMENT: IF: Surface blow, died @ 20 min.  
 IS: No return.  
 FF: No blow.  
 FSI: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2160.09         | 114.19       | Initial Hydro-static |
| 1           | 17.23           | 113.33       | Open To Flow (1)     |
| 31          | 18.85           | 113.86       | Shut-In(1)           |
| 62          | 39.22           | 114.50       | End Shut-In(1)       |
| 62          | 19.76           | 114.50       | Open To Flow (2)     |
| 91          | 19.91           | 115.19       | Shut-In(2)           |
| 124         | 31.63           | 115.93       | End Shut-In(2)       |
| 125         | 2134.19         | 117.55       | Final Hydro-static   |

## Recovery

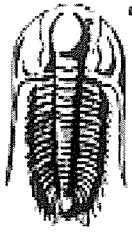
| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 5.00        | Mud 100m (oil spots) | 0.02         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**8-18s-25w Ness, KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59130

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 07:39:00

## GENERAL INFORMATION:

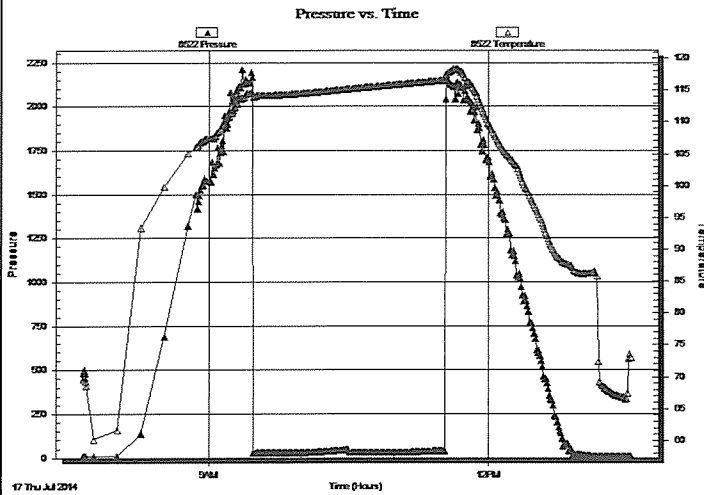
Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:29:00  
 Time Test Ended: 13:32:15  
 Interval: **4348.00 ft (KB) To 4437.00 ft (KB) (TVD)**  
 Total Depth: 4437.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2507.00 ft (KB)  
 2502.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8522

Outside

Press@RunDepth: psig @ 4349.00 ft (KB)  
 Capacity: 8000.00 psig  
 Start Date: 2014.07.17 End Date: 2014.07.17 Last Calib.: 2014.07.17  
 Start Time: 07:39:05 End Time: 13:31:59 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: Surface blow , died @ 20 min.  
 IS: No return.  
 FF: No blow .  
 FSI: No return.



## PRESSURE SUMMARY

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

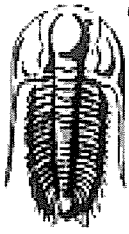
## Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 5.00        | Mud 100m (oil spots) | 0.02         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59130

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 07:39:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4226.00 ft | Diameter: 3.80 inches | Volume: 59.28 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: 121.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <b>Total Volume: 59.88 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                                | String Weight: Initial 59000.00 lb |
| Depth to Top Packer:      | 4348.00 ft         |                       |                                | Final 59000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 89.00 ft           |                       |                                |                                    |
| Tool Length:              | 116.00 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        |            |          | 4322.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4327.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4332.00    |                               |
| Jars             | 5.00        |            |          | 4337.00    |                               |
| Safety Joint     | 2.00        |            |          | 4339.00    |                               |
| Packer           | 5.00        |            |          | 4344.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4348.00    |                               |
| Stubb            | 1.00        |            |          | 4349.00    |                               |
| Recorder         | 0.00        | 8365       | Inside   | 4349.00    |                               |
| Recorder         | 0.00        | 8522       | Outside  | 4349.00    |                               |
| Perforations     | 20.00       |            |          | 4369.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4370.00    |                               |
| Drill Pipe       | 63.00       |            |          | 4433.00    |                               |
| Change Over Sub  | 1.00        |            |          | 4434.00    |                               |
| Bullnose         | 3.00        |            |          | 4437.00    | 89.00 Bottom Packers & Anchor |

**Total Tool Length: 116.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59130

**DST#: 2**

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 07:39:00

## 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: 54.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2100.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 5.00         | Mud 100m (oil spots) | 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:

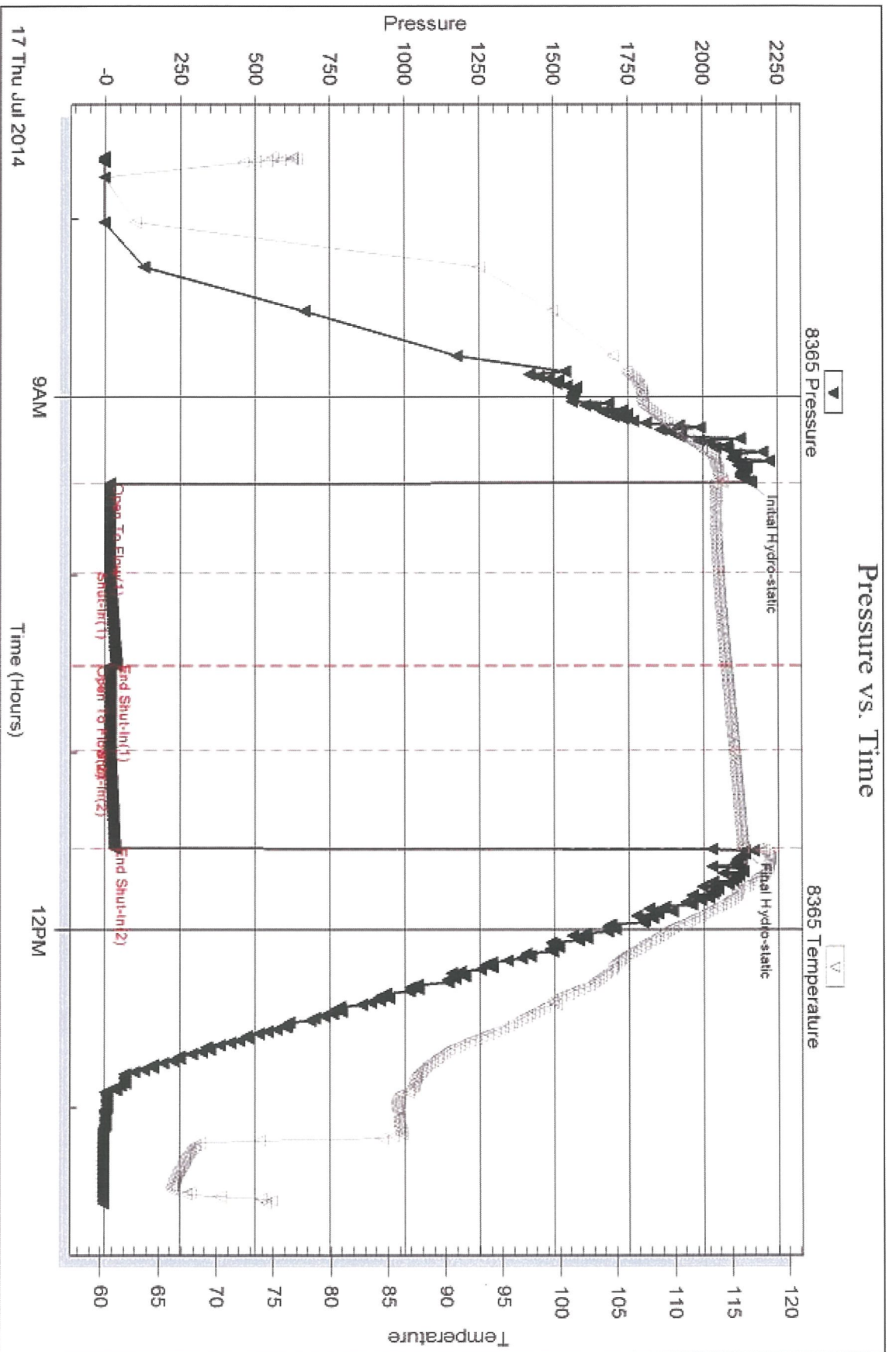
Serial #: 8365

Inside

Palominio Petroleum

BBR #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 59130

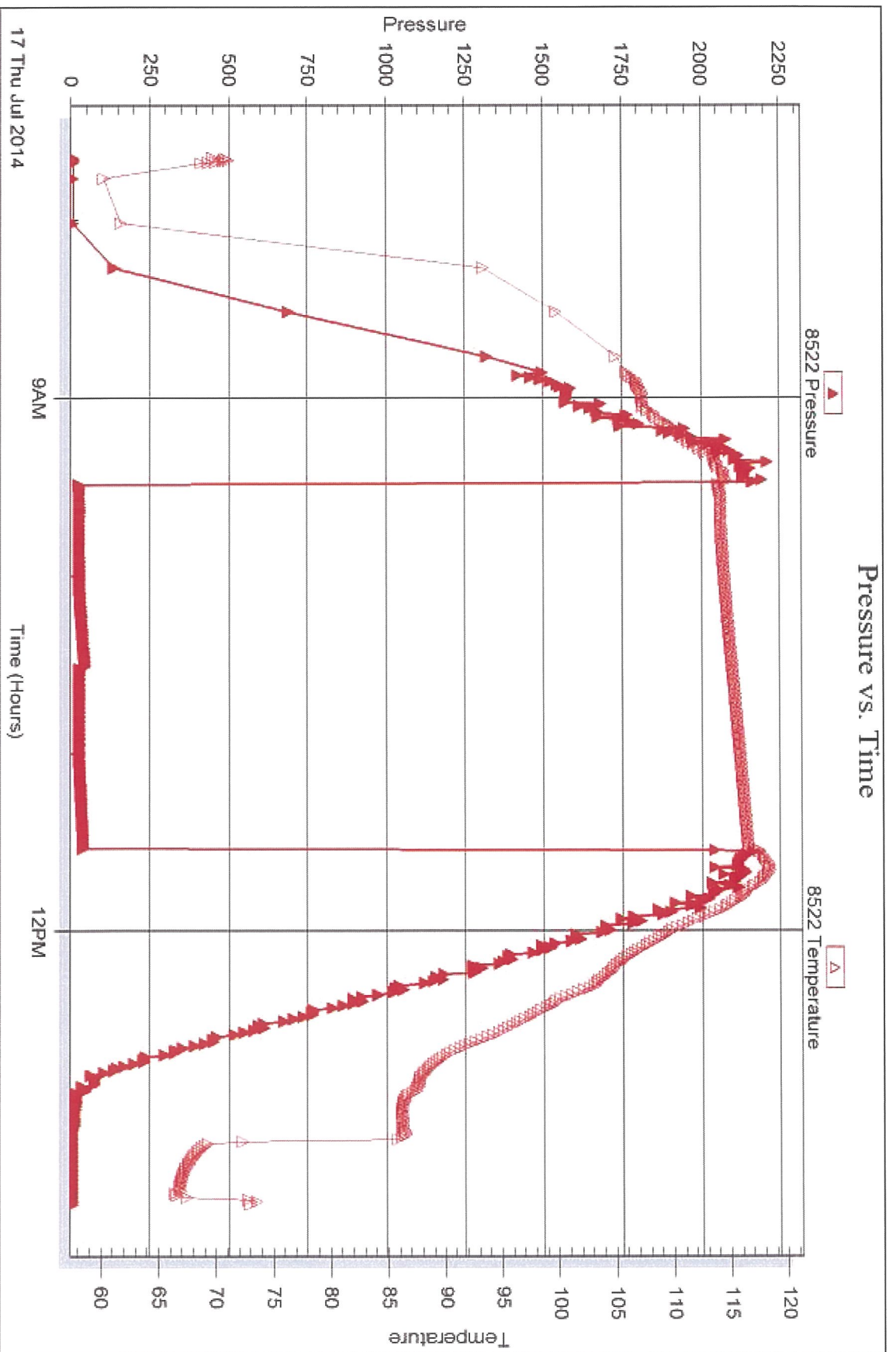
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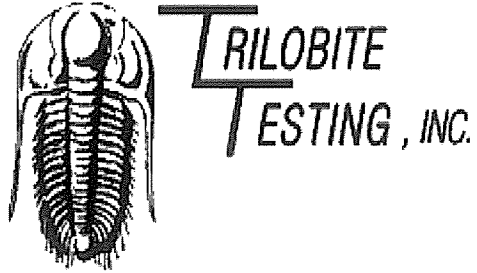
Serial #: 8522

Outside Palomino Petroleum

BBR #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Ryan Seib

**BBR #1**

**8-18s-25w Ness,KS**

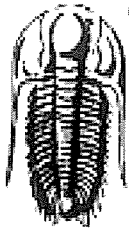
Start Date: 2014.07.17 @ 20:53:00

End Date: 2014.07.18 @ 02:30:30

Job Ticket #: 59131                      DST #: 3

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

Printed: 2014.07.21 @ 10:13:58



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
ATTN: Ryan Seib

**8-18s-25w Ness,KS**  
**BBR #1**  
Job Ticket: 59131      **DST#: 3**  
Test Start: 2014.07.17 @ 20:53:00

## GENERAL INFORMATION:

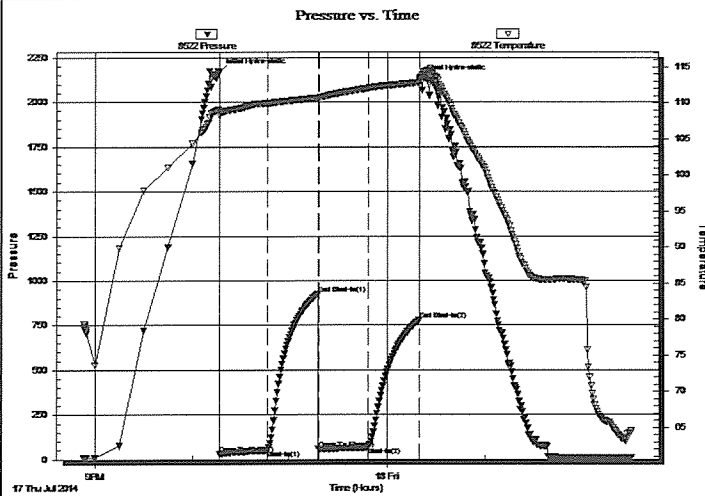
Formation: **Mississippian**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 22:17:15  
Time Test Ended: 02:30:30  
Interval: **4348.00 ft (KB) To 4459.00 ft (KB) (TVD)**  
Total Depth: **4459.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Good**  
Test Type: **Conventional Bottom Hole (Reset)**  
Tester: **Bradley Walter**  
Unit No: **69**  
Reference Elevations: **2507.00 ft (KB)**  
**2502.00 ft (CF)**  
KB to GR/CF: **5.00 ft**

## Serial #: 8522

Outside

Press@RunDepth: **67.19 psig @ 4349.00 ft (KB)**      Capacity: **8000.00 psig**  
Start Date: **2014.07.17**      End Date: **2014.07.18**      Last Calib.: **2014.07.18**  
Start Time: **20:53:05**      End Time: **02:30:29**      Time On Btm: **2014.07.17 @ 22:16:45**  
Time Off Btm: **2014.07.18 @ 00:20:00**

TEST COMMENT: IF: 1" blow.  
IS: No return.  
FF: 1/2" blow.  
FS: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2168.46         | 108.82       | Initial Hydro-static |
| 1           | 30.57           | 108.30       | Open To Flow (1)     |
| 30          | 50.96           | 109.99       | Shut-In(1)           |
| 61          | 926.28          | 110.75       | End Shut-In(1)       |
| 62          | 56.83           | 110.60       | Open To Flow (2)     |
| 92          | 67.19           | 112.09       | Shut-In(2)           |
| 123         | 779.20          | 112.88       | End Shut-In(2)       |
| 124         | 2132.42         | 113.43       | Final Hydro-static   |

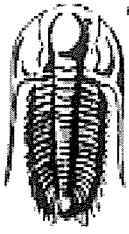
## Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 70.00       | ocm 10o 90m | 0.34         |
| 25.00       | oil 100o    | 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

8-18s-25w Ness,KS

4924 SE 84th St.  
New ton KS 67114

BBR #1

Job Ticket: 59131

DST#: 3

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 20:53:00

## GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:17:15

Time Test Ended: 02:30:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4348.00 ft (KB) To 4459.00 ft (KB) (TVD)

Reference Elevations: 2507.00 ft (KB)

Total Depth: 4459.00 ft (KB) (TVD)

2502.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8365 Inside

Press@RunDepth: psig @ 4349.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.17

End Date:

2014.07.18

Last Calib.:

2014.07.18

Start Time: 20:53:05

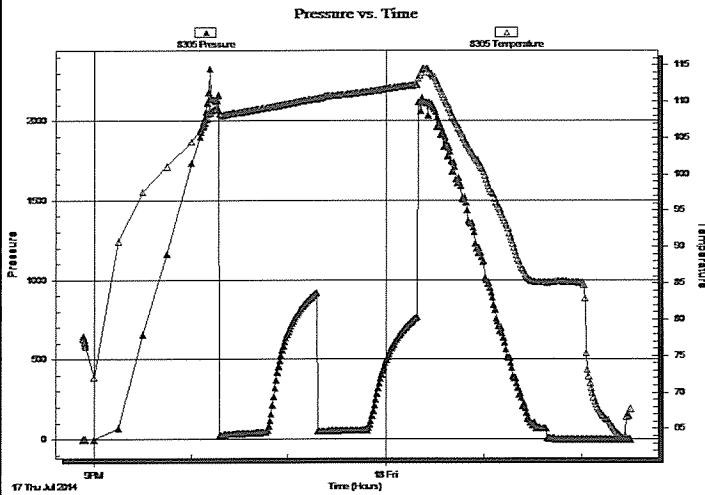
End Time:

02:30:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1" blow.  
IS: No return.  
FF: 1/2" blow.  
FS: No return.



## PRESSURE SUMMARY

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

## Recovery

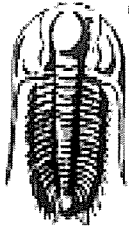
| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 70.00       | ocm 10o 90m | 0.34         |
| 25.00       | oil 100o    | 0.12         |
|             |             |              |
|             |             |              |
|             |             |              |

\* 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

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59131

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 20:53:00

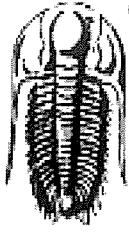
**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4226.00 ft | Diameter: 3.80 inches | Volume: 59.28 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: 121.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 75000.00 lb  |
|                           |                    |                       | <b>Total Volume: 59.88 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 4348.00 ft         |                       |                                | Final 60000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 111.00 ft          |                       |                                |                                    |
| Tool Length:              | 138.00 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        |            |          | 4322.00    |                                |
| Shut In Tool     | 5.00        |            |          | 4327.00    |                                |
| Hydraulic tool   | 5.00        |            |          | 4332.00    |                                |
| Jars             | 5.00        |            |          | 4337.00    |                                |
| Safety Joint     | 2.00        |            |          | 4339.00    |                                |
| Packer           | 5.00        |            |          | 4344.00    | 27.00 Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 4348.00    |                                |
| Stubb            | 1.00        |            |          | 4349.00    |                                |
| Recorder         | 0.00        | 8365       | Inside   | 4349.00    |                                |
| Recorder         | 0.00        | 8522       | Outside  | 4349.00    |                                |
| Perforations     | 10.00       |            |          | 4359.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4360.00    |                                |
| Drill Pipe       | 95.00       |            |          | 4455.00    |                                |
| Change Over Sub  | 1.00        |            |          | 4456.00    |                                |
| Bullnose         | 3.00        |            |          | 4459.00    | 111.00 Bottom Packers & Anchor |

**Total Tool Length: 138.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59131

**DST#: 3**

ATTN: Ryan Seib

Test Start: 2014.07.17 @ 20:53:00

## Mud and Cushion Information

|                                  |                            |                 |            |
|----------------------------------|----------------------------|-----------------|------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | 36 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | 0 ppm      |
| Viscosity: 52.00 sec/qt          | Cushion Volume: bbl        |                 |            |
| Water Loss: 7.59 in <sup>3</sup> | Gas Cushion Type:          |                 |            |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |            |
| Salinity: 2300.00 ppm            |                            |                 |            |
| Filter Cake: 1.00 inches         |                            |                 |            |

## Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 70.00        | ocm 10o 90m | 0.344         |
| 25.00        | oil 100o    | 0.123         |

Total Length: 95.00 ft      Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

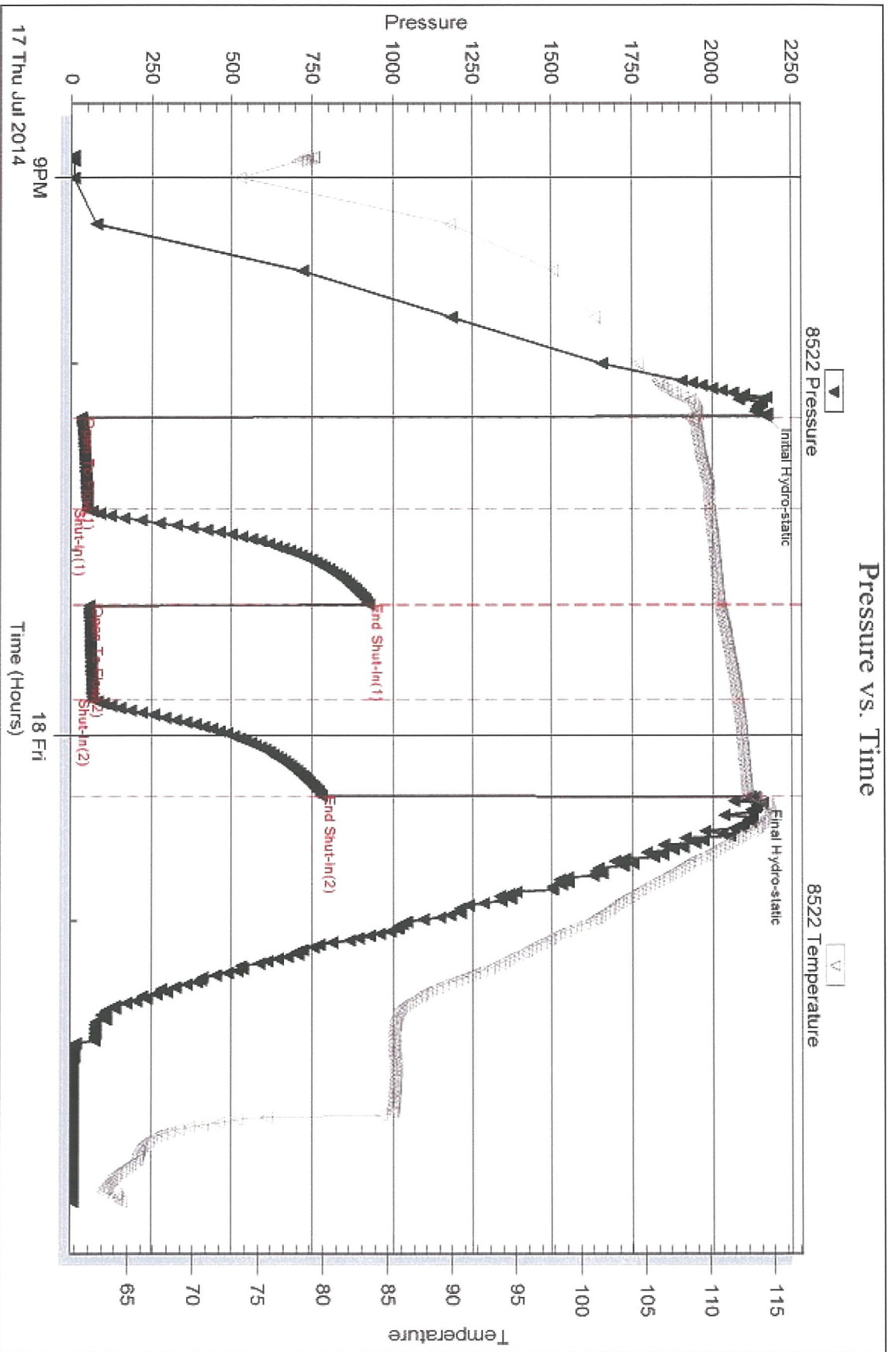
Serial #: 8522

Outside

Palomino Petroleum

BBR #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59131

Printed: 2014.07.21 @ 10:13:59

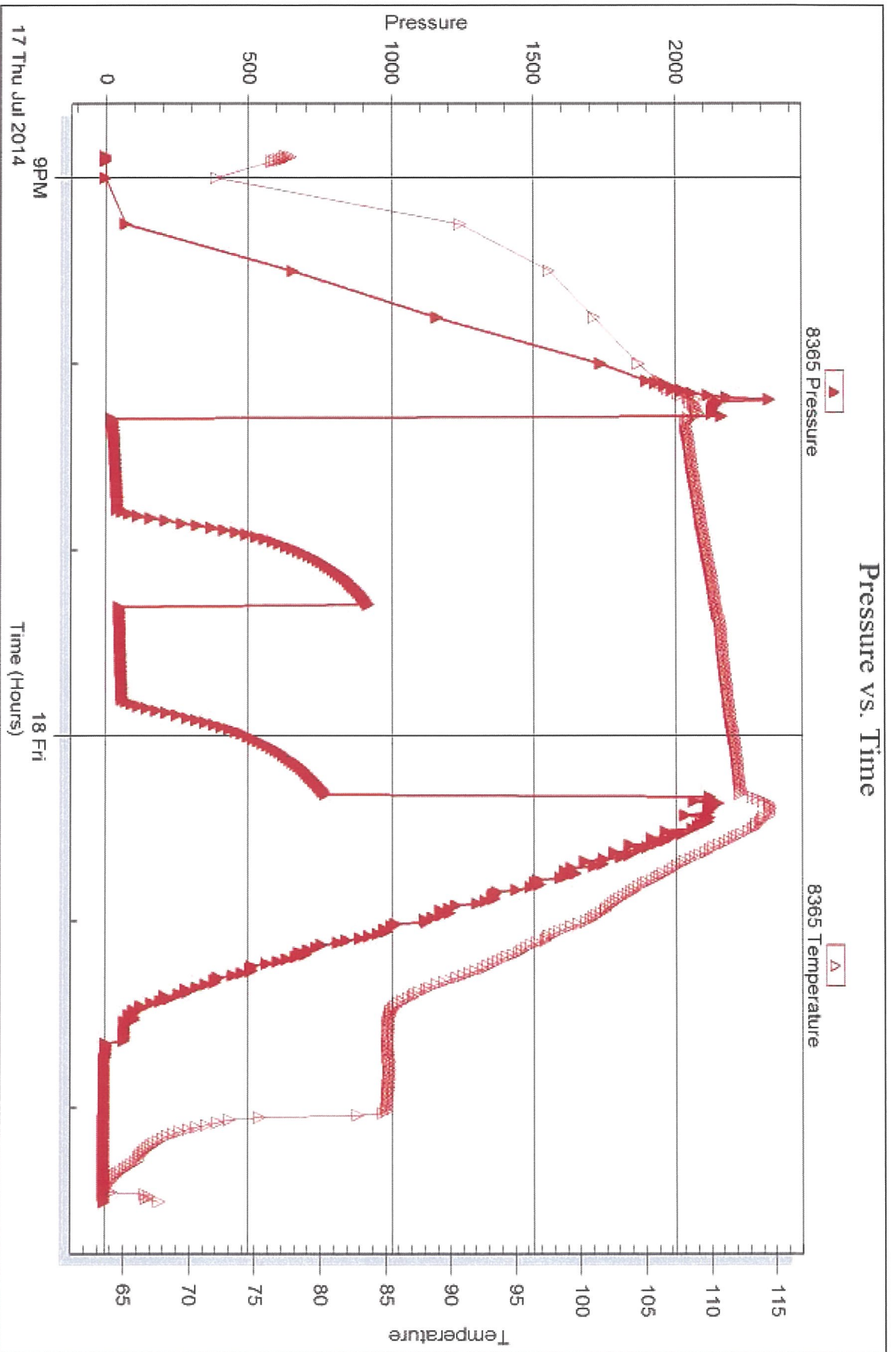
Serial #: 8365

Inside

Palomino Petroleum

BBR #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 59131

Printed: 2014.07.21 @ 10:14:00



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St.  
Newton KS 67114

ATTN: Ryan Seib

**BBR #1**

**8-18s-25w Ness,KS**

Start Date: 2014.07.18 @ 14:10:00

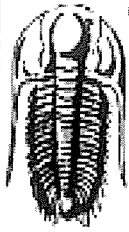
End Date: 2014.07.18 @ 20:19:15

Job Ticket #: 59132                      DST #: 4

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

Printed: 2014.07.21 @ 10:13:29

Palomino Petroleum  
8-18s-25w Ness,KS  
BBR #1  
DST # 4  
Ft Scott  
2014.07.18



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59132

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2014.07.18 @ 14:10:00

## GENERAL INFORMATION:

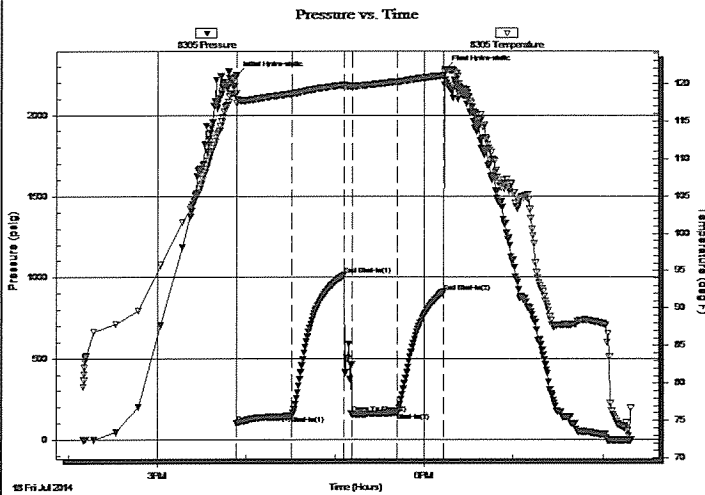
Formation: **Ft Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:53:45  
 Time Test Ended: 20:19:15  
 Interval: **4310.00 ft (KB) To 4469.00 ft (KB) (TVD)**  
 Total Depth: 4551.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 69  
 Reference Elevations: 2507.00 ft (KB)  
 2502.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8365

Outside

Press@RunDepth: 165.42 psig @ 4311.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.07.18 End Date: 2014.07.18 Last Calib.: 2014.07.18  
 Start Time: 14:10:05 End Time: 20:19:14 Time On Btm: 2014.07.18 @ 15:53:30  
 Time Off Btm: 2014.07.18 @ 18:14:00

TEST COMMENT: IF: BOB @ 18 min.  
 IS: No return.  
 FF: 8" blow.  
 FSI: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2247.99         | 118.61       | Initial Hydro-static |
| 1           | 98.75           | 117.41       | Open To Flow (1)     |
| 37          | 146.36          | 118.63       | Shut-In(1)           |
| 73          | 1013.82         | 119.77       | End Shut-In(1)       |
| 78          | 159.48          | 119.51       | Open To Flow (2)     |
| 108         | 165.42          | 120.22       | Shut-In(2)           |
| 140         | 908.94          | 121.03       | End Shut-In(2)       |
| 141         | 2282.75         | 121.85       | Final Hydro-static   |

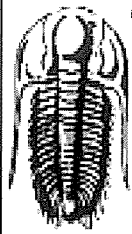
## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 120.00      | gocm 50g 20o 30m | 0.59         |
| 70.00       | gocm 20g 20o 60m | 0.97         |
| 0.00        | 120' GIP         | 0.00         |
|             |                  |              |
|             |                  |              |

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Palomino Petroleum

**8-18s-25w Ness, KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59132

DST#: 4

ATTN: Ryan Seib

Test Start: 2014.07.18 @ 14:10:00

## GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:53:45

Time Test Ended: 20:19:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4310.00 ft (KB) To 4469.00 ft (KB) (TVD)**

Reference Elevations: 2507.00 ft (KB)

Total Depth: 4551.00 ft (KB) (TVD)

2502.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

## Serial #: 8677

Inside

Press@RunDepth: psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.18

End Date:

2014.07.18

Last Calib.: 2014.07.18

Start Time: 14:10:05

End Time:

20:18:14

Time On Btm:

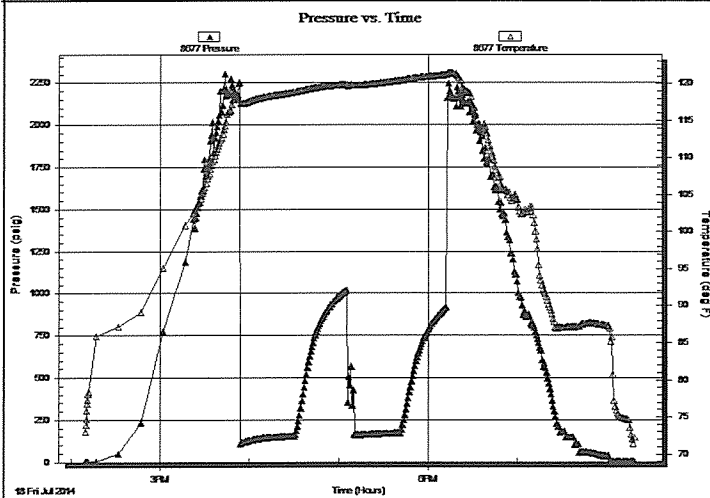
Time Off Btm:

TEST COMMENT: IF: BOB @ 18 min.

IS: No return.

FF: 8" blow.

FSI: No return.



## PRESSURE SUMMARY

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

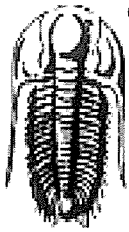
## Recovery

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 120.00      | gocm 50g 20o 30m | 0.59         |
| 70.00       | gocm 20g 20o 60m | 0.97         |
| 0.00        | 120' GIP         | 0.00         |
|             |                  |              |
|             |                  |              |
|             |                  |              |

## Gas Rates

| Description | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|----------------|-----------------|------------------|
|-------------|----------------|-----------------|------------------|

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

ATTN: Ryan Seib

Job Ticket: 59132

DST#: 4

Test Start: 2014.07.18 @ 14:10:00

### GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:53:45

Time Test Ended: 20:19:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: **4310.00 ft (KB) To 4469.00 ft (KB) (TVD)**

Reference Elevations: 2507.00 ft (KB)

Total Depth: 4551.00 ft (KB) (TVD)

2502.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8522 Below (Straddle)**

Press@RunDepth: psig @ 4485.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.18

End Date:

2014.07.18

Last Calib.:

2014.07.18

Start Time: 14:10:05

End Time:

20:19:14

Time On Btm:

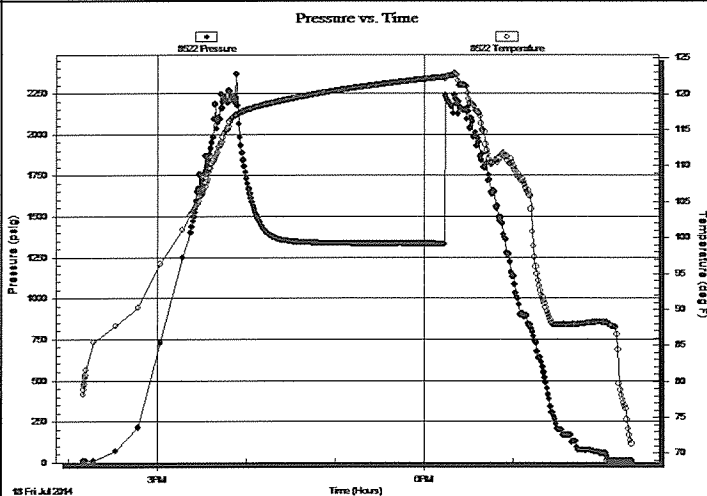
Time Off Btm:

TEST COMMENT: IF: BOB @ 18 min.

IS: No return.

FF: 8" blow.

FSI: No return.



### PRESSURE SUMMARY

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

### Recovery

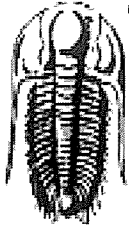
| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 120.00      | gocm 50g 20o 30m | 0.59         |
| 70.00       | gocm 20g 20o 60m | 0.97         |
| 0.00        | 120' GIP         | 0.00         |
|             |                  |              |
|             |                  |              |

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum  
4924 SE 84th St.  
New ton KS 67114  
  
ATTN: Ryan Seib

**8-18s-25w Ness,KS**  
  
**BBR #1**  
Job Ticket: 59132      **DST#: 4**  
Test Start: 2014.07.18 @ 14:10:00

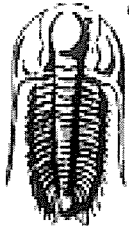
**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4194.00 ft | Diameter: 3.80 inches | Volume: 58.83 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: 2500.00 lb   |
| Drill Collar:             | Length: 121.00 ft  | Diameter: 2.25 inches | Volume: 0.60 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <b>Total Volume: 59.43 bbl</b> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 32.00 ft           |                       |                                | String Weight: Initial 60000.00 lb |
| Depth to Top Packer:      | 4310.00 ft         |                       |                                | Final 62000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 242.00 ft          |                       |                                |                                    |
| Tool Length:              | 269.00 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        |            |          | 4284.00    |                                         |
| Shut In Tool     | 5.00        |            |          | 4289.00    |                                         |
| Hydraulic tool   | 5.00        |            |          | 4294.00    |                                         |
| Jars             | 5.00        |            |          | 4299.00    |                                         |
| Safety Joint     | 2.00        |            |          | 4301.00    |                                         |
| Packer           | 5.00        |            |          | 4306.00    | 27.00      Bottom Of Top Packer         |
| Packer           | 4.00        |            |          | 4310.00    |                                         |
| Stubb            | 1.00        |            |          | 4311.00    |                                         |
| Recorder         | 0.00        | 8677       | Inside   | 4311.00    |                                         |
| Recorder         | 0.00        | 8365       | Outside  | 4311.00    |                                         |
| Perforations     | 10.00       |            |          | 4321.00    |                                         |
| Change Over Sub  | 1.00        |            |          | 4322.00    |                                         |
| Drill Pipe       | 127.00      |            |          | 4449.00    |                                         |
| Change Over Sub  | 1.00        |            |          | 4450.00    |                                         |
| Perforations     | 15.00       |            |          | 4465.00    |                                         |
| Blank Off Sub    | 1.00        |            |          | 4466.00    |                                         |
| Packer           | 3.00        |            |          | 4469.00    |                                         |
| Blank Spacing    | 1.00        |            |          | 4470.00    | 242.00      Tool Interval               |
| Packer           | 5.00        |            |          | 4475.00    |                                         |
| Perforations     | 9.00        |            |          | 4484.00    |                                         |
| Change Over Sub  | 1.00        |            |          | 4485.00    |                                         |
| Recorder         | 0.00        | 8522       | Below    | 4485.00    |                                         |
| Drill Pipe       | 63.00       |            |          | 4548.00    |                                         |
| Change Over Sub  | 1.00        |            |          | 4549.00    |                                         |
| Bullnose         | 3.00        |            |          | 4552.00    | 1000268.00      Bottom Packers & Anchor |

**Total Tool Length: 269.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Palomino Petroleum

**8-18s-25w Ness,KS**

4924 SE 84th St.  
New ton KS 67114

**BBR #1**

Job Ticket: 59132

**DST#: 4**

ATTN: Ryan Seib

Test Start: 2014.07.18 @ 14:10:00

## 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: 53.00 sec/qt

Cushion Volume:

bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 120.00       | gocm 50g 20o 30m | 0.590         |
| 70.00        | gocm 20g 20o 60m | 0.973         |
| 0.00         | 120' GIP         | 0.000         |

Total Length: 190.00 ft      Total Volume: 1.563 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

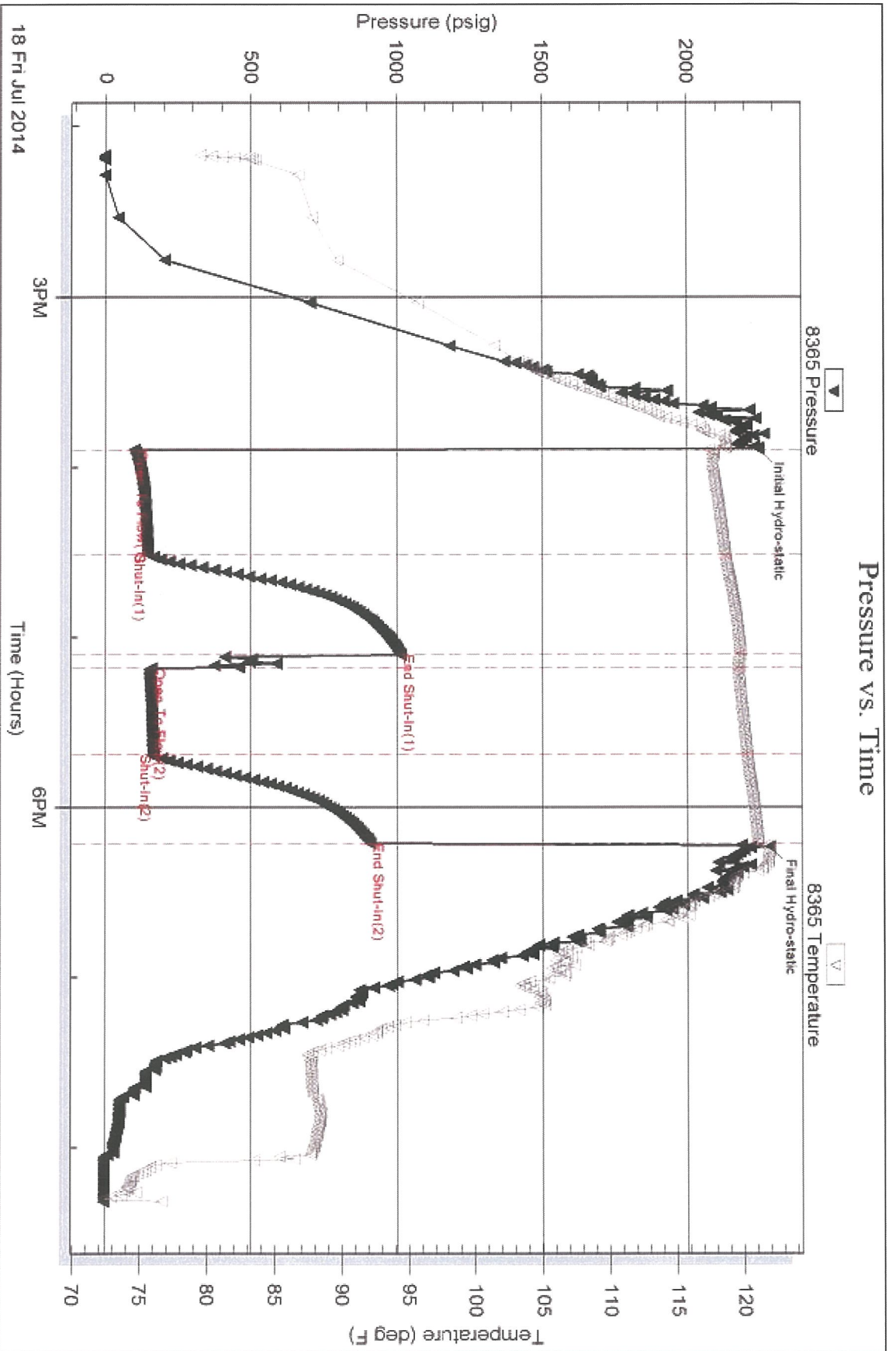
Serial #: 8365

Outside

Palomino Petroleum

BBR #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 59132

Printed: 2014.07.21 @ 10:13:30

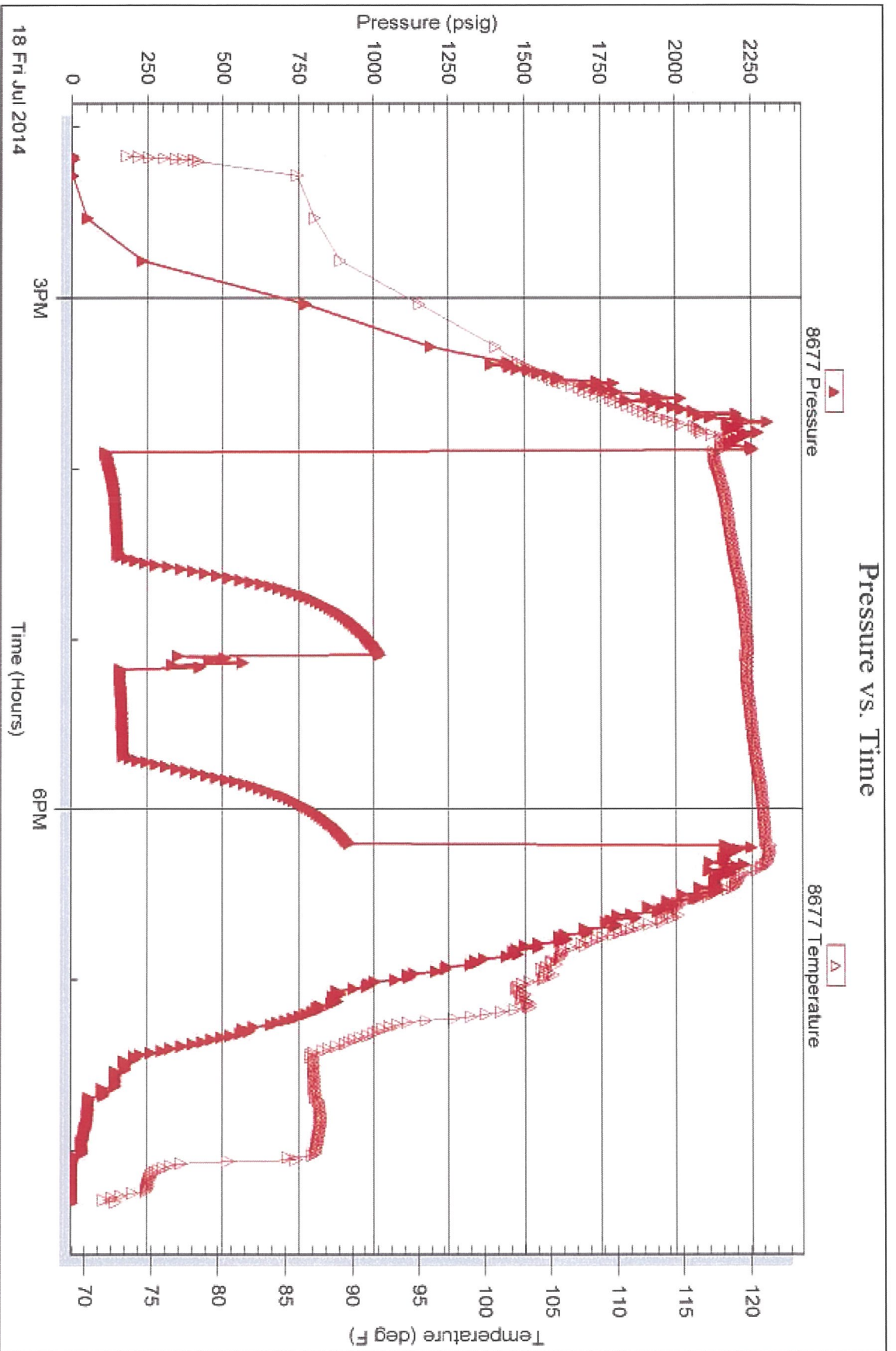
Serial #: 8677

Inside

Palomino Petroleum

BBR #1

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 59132

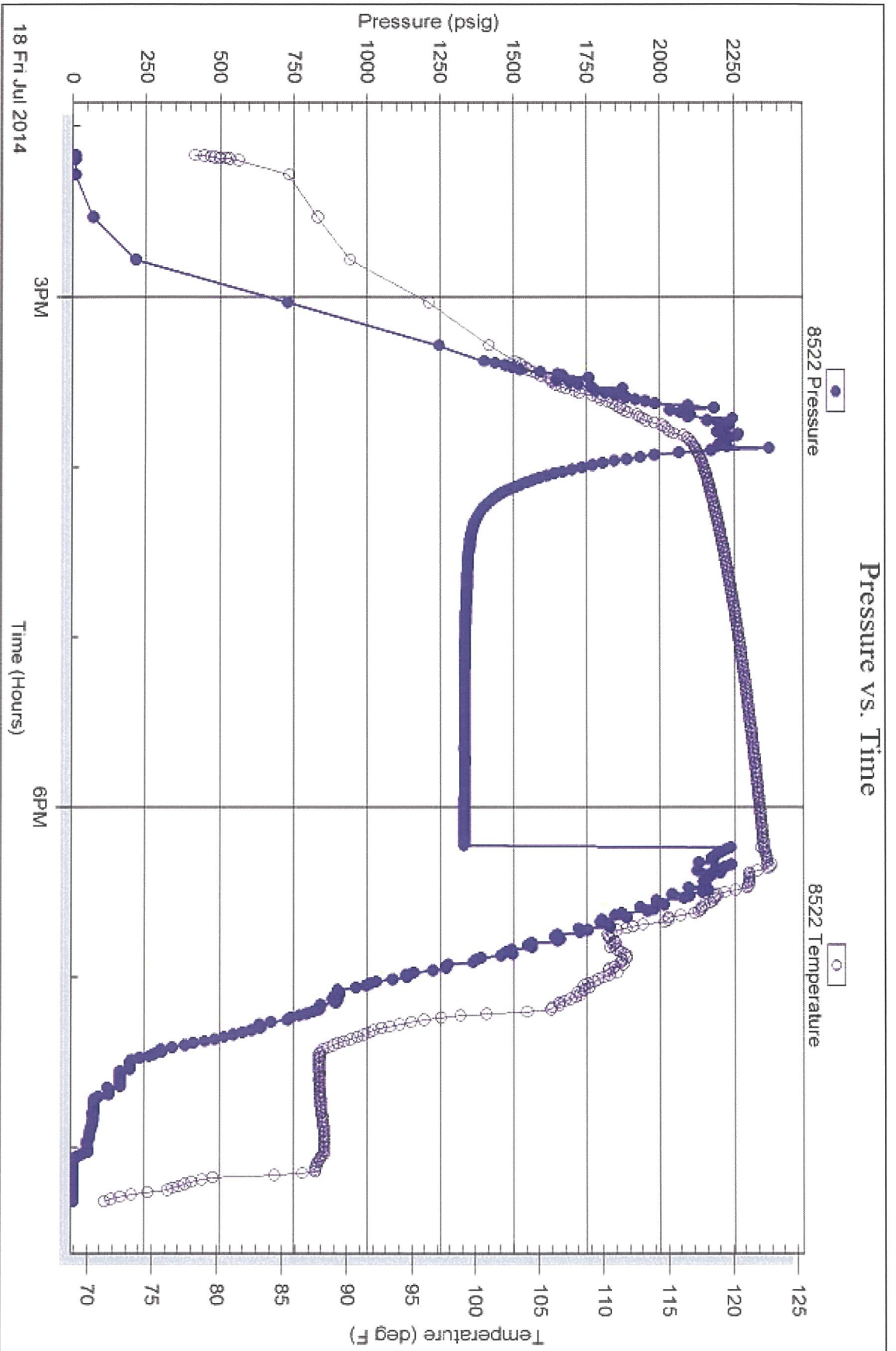
Printed: 2014.07.21 @ 10:13:31

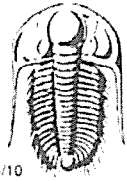
Serial #: 8522

Below (Str. Ratio)no Petroleum

BBR #1

DST Test Number: 4





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59129

Well Name & No. BBR #1 Test No. 1 Date 7/16/14  
 Company Palomino Petroleum Elevation 2502 KB 2502 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #8  
 Location: Sec. 8 Twp. 18S Rge. 25W Co. Ness State KS

Interval Tested 4127 - 4270 Zone Tested Marmaton  
 Anchor Length 143 Drill Pipe Run 4004 Mud Wt. 9.4  
 Top Packer Depth 4122 Drill Collars Run 121 Vis 53  
 Bottom Packer Depth 4127 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4270 Chlorides 2100 ppm System LCM 1#

Blow Description IF: 1" blow  
ISI: No return  
FF: Wax Surface blow  
FST: No return.

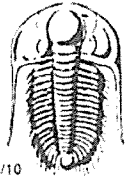
| Rec       | Feet of    | (Oil Specs in tool) | %gas | %oil | %water | %mud |
|-----------|------------|---------------------|------|------|--------|------|
| <u>50</u> | <u>MUD</u> |                     |      |      |        |      |
| Rec       | Feet of    |                     | %gas | %oil | %water | %mud |
| Rec       | Feet of    |                     | %gas | %oil | %water | %mud |
| Rec       | Feet of    |                     | %gas | %oil | %water | %mud |
| Rec       | Feet of    |                     | %gas | %oil | %water | %mud |

Rec Total 50 BHT 116 Gravity - API RW - @ - F Chlorides - ppm

|                                     |                                                                       |                                              |
|-------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|
| (A) Initial Hydrostatic <u>2040</u> | <input checked="" type="checkbox"/> Test <u>1250</u>                  | T-On Location <u>0645</u>                    |
| (B) First Initial Flow <u>30</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>                   | T-Started <u>0842</u>                        |
| (C) First Final Flow <u>42</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>            | T-Open <u>1052</u>                           |
| (D) Initial Shut-In <u>834</u>      | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u>               | T-Pulled <u>1252</u>                         |
| (E) Second Initial Flow <u>45</u>   | <input type="checkbox"/> Hourly Standby                               | T-Out                                        |
| (F) Second Final Flow <u>52</u>     | <input checked="" type="checkbox"/> Mileage <u>9821</u> <u>151.90</u> | Comments                                     |
| (G) Final Shut-In <u>738</u>        | <input type="checkbox"/> Sampler                                      |                                              |
| (H) Final Hydrostatic <u>2011</u>   | <input type="checkbox"/> Straddle                                     | <input type="checkbox"/> Ruined Shale Packer |
| Initial Open <u>30</u>              | <input type="checkbox"/> Shale Packer                                 | <input type="checkbox"/> Ruined Packer       |
| Initial Shut-In <u>30</u>           | <input type="checkbox"/> Extra Packer                                 | <input type="checkbox"/> Extra Copies        |
| Final Flow <u>30</u>                | <input type="checkbox"/> Extra Recorder                               | Sub Total <u>0</u>                           |
| Final Shut-In <u>30</u>             | <input type="checkbox"/> Day Standby                                  | Total <u>1726.90</u>                         |
|                                     | <input type="checkbox"/> Accessibility                                | MP/DST Disc                                  |
|                                     | Sub Total <u>1726.90</u>                                              |                                              |

Approved By \_\_\_\_\_ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59130

Well Name & No. BBR #1 Test No. 2 Date 7/17/14  
 Company Palomino Petroleum Elevation 2507 KB 2502 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #8  
 Location: Sec. 8 Twp. 18S Rge. 25W Co. Lane Ness State KS

Interval Tested 4348 4437 Zone Tested Mississippian  
 Anchor Length 89' Drill Pipe Run 4226 Mud Wt. 9.3  
 Top Packer Depth 4343 Drill Collars Run 121 Vis 54  
 Bottom Packer Depth 4348 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4437 Chlorides ~~21,000~~ 2100 ppm System LCM 1/2 #  
 Blow Description IF: Surface blow, chkd @ 20 min.  
ISI: No return.  
FF: No blow.  
FSI: No return.

| Rec      | Feet of         | %gas | %oil | %water | %mud |
|----------|-----------------|------|------|--------|------|
| <u>5</u> | <u>MUD</u>      |      |      |        |      |
|          | <u>OK Spots</u> |      |      |        |      |
|          |                 |      |      |        |      |
|          |                 |      |      |        |      |

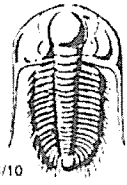
Rec Total 5 BHT 116 Gravity — API RW — @ — °F Chlorides — ppm

|                                     |                                                                 |                           |
|-------------------------------------|-----------------------------------------------------------------|---------------------------|
| (A) Initial Hydrostatic <u>2160</u> | <input checked="" type="checkbox"/> Test <u>1250</u>            | T-On Location <u>0720</u> |
| (B) First Initial Flow <u>17</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>             | T-Started <u>0739</u>     |
| (C) First Final Flow <u>19</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u>      | T-Open <u>0929</u>        |
| (D) Initial Shut-In <u>34</u>       | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u>         | T-Pulled <u>1159</u>      |
| (E) Second Initial Flow <u>20</u>   | <input type="checkbox"/> Hourly Standby                         | T-Out <u>1332</u>         |
| (F) Second Final Flow <u>20</u>     | <input checked="" type="checkbox"/> Mileage <u>98 RT 151.90</u> | Comments                  |
| (G) Final Shut-In <u>32</u>         | <input type="checkbox"/> Sampler                                |                           |
| (H) Final Hydrostatic <u>2134</u>   | <input type="checkbox"/> Straddle                               |                           |

|                           |                                         |                                              |
|---------------------------|-----------------------------------------|----------------------------------------------|
| Initial Open <u>30</u>    | <input type="checkbox"/> Shale Packer   | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>30</u> | <input type="checkbox"/> Shale Packer   | <input type="checkbox"/> Ruined Packer       |
| Final Flow <u>30</u>      | <input type="checkbox"/> Extra Packer   | <input type="checkbox"/> Extra Copies        |
| Final Shut-In <u>30</u>   | <input type="checkbox"/> Extra Recorder | Sub Total <u>0</u>                           |
|                           | <input type="checkbox"/> Day Standby    | Total <u>1726.90</u>                         |
|                           | <input type="checkbox"/> Accessibility  | MP/DST Disc't                                |
|                           | Sub Total <u>1726.90</u>                |                                              |

Approved By \_\_\_\_\_ Our Representative Bud [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59131

Well Name & No. BBR #1 Test No. 3 Date 7/15/14  
 Company Palomino Petroleum Elevation 2507 KB 2502 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #8  
 Location: Sec. 8 Twp. 18S Rge. 25W Co. Late Ness State KS

Interval Tested 4348 4459 Zone Tested Mississippian  
 Anchor Length 43' 11" Drill Pipe Run 4226 Mud Wt. 9.2  
 Top Packer Depth 4343 Drill Collars Run 121 Vis 52  
 Bottom Packer Depth 4348 Wt. Pipe Run 8 WL 7.6  
 Total Depth 4459 Chlorides 2300 ppm System LCM 1#  
 Blow Description IF: 1' blow  
TSI: No return  
FF: 1/2" blow  
FSI: No return

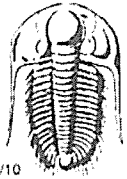
| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
| 25  | oil     | 100  |      |        |      |
| 70  | OCM     | 10   |      | 90     |      |
|     |         |      |      |        |      |
|     |         |      |      |        |      |

Rec Total 95 BHT 113 Gravity 36 API RW — @ — °F Chlorides — ppm  
 (A) Initial Hydrostatic 2168  Test 1250 T-On Location 2045  
 (B) First Initial Flow 31  Jars 250 T-Started 2053  
 (C) First Final Flow 51  Safety Joint 75 T-Open 22 17  
 (D) Initial Shut-In 926  Circ Sub MC T-Pulled 00 17 7/15  
 (E) Second Initial Flow 57  Hourly Standby \_\_\_\_\_ T-Out 0231  
 (F) Second Final Flow 67  Mileage 98RT 151.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 779  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2132  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1726.90  
 Total 1726.90  
 MP/DST Disc't \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 59132

Well Name & No. BBR #1 Test No. 4 Date 7/18/14  
 Company Palomina Petroleum Elevation 2507 KB 2502 GL  
 Address 4924 SE 84th St Newton, ks 67114  
 Co. Rep / Geo. Ryan Seib Rig WW #8  
 Location: Sec. 8 Twp. 18S Rge. 25W Co. Ness State Ks

Interval Tested 4310 - 4469 Zone Tested Ft Scott  
 Anchor Length 159' Drill Pipe Run 4194 Mud Wt. 9.2  
 Top Packer Depth 4305 Drill Collars Run 121 Vis 53  
 Bottom Packer Depth 4310 4469 str Wt. Pipe Run 0 WL 7.6  
 Total Depth 4551 Chlorides 4200 ppm System LCM 1#

Blow Description IF: BOB @ 15 min  
ISI: No return  
FF: 8" blow  
FSI: No return

| Rec        | Feet of        | %gas      | %oil      | %water    | %mud |
|------------|----------------|-----------|-----------|-----------|------|
| <u>70</u>  | <u>60cm</u>    | <u>30</u> | <u>20</u> | <u>50</u> |      |
| <u>120</u> |                | <u>30</u> | <u>20</u> | <u>30</u> |      |
|            | <u>20' GIP</u> |           |           |           |      |

Rec Total 1000 BHT 121 Gravity — API RW — @ — °F Chlorides — ppm

|                                     |                                                                |                                              |
|-------------------------------------|----------------------------------------------------------------|----------------------------------------------|
| (A) Initial Hydrostatic <u>2248</u> | <input checked="" type="checkbox"/> Test <u>1250</u>           | T-On Location <u>1915</u>                    |
| (B) First Initial Flow <u>99</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>            | T-Started <u>1930</u>                        |
| (C) First Final Flow <u>147</u>     | <input checked="" type="checkbox"/> Safety Joint <u>75</u>     | T-Open <u>1605</u>                           |
| (D) Initial Shut-In <u>1014</u>     | <input checked="" type="checkbox"/> Circ Sub <u>N/C</u>        | T-Pulled <u>1825</u>                         |
| (E) Second Initial Flow <u>159</u>  | <input type="checkbox"/> Hourly Standby                        | T-Out <u>2042</u>                            |
| (F) Second Final Flow <u>165</u>    | <input checked="" type="checkbox"/> Mileage <u>98RT 151.90</u> | Comments                                     |
| (G) Final Shut-In <u>909</u>        | <input type="checkbox"/> Sampler                               |                                              |
| (H) Final Hydrostatic <u>2283</u>   | <input checked="" type="checkbox"/> Straddle <u>600</u>        | <input type="checkbox"/> Ruined Shale Packer |

|                                                |                                                             |                                        |
|------------------------------------------------|-------------------------------------------------------------|----------------------------------------|
| Initial Open <u>had</u> <u>30</u>              | <input checked="" type="checkbox"/> Shale Packer <u>250</u> | <input type="checkbox"/> Ruined Packer |
| Initial Shut-In <u>Slip problems</u> <u>30</u> | <input checked="" type="checkbox"/> Extra Packer <u>250</u> | <input type="checkbox"/> Extra Copies  |
| Final Flow <u>Times are off</u> <u>30</u>      | <input type="checkbox"/> Extra Recorder                     | Sub Total <u>0</u>                     |
| Final Shut-In <u>30</u>                        | <input type="checkbox"/> Day Standby                        | Total <u>2826.90</u>                   |
|                                                | <input type="checkbox"/> Accessibility                      | MP/DST Disc'                           |
|                                                | Sub Total <u>2826.90</u>                                    |                                        |

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