

RECEIVED  
OCT 15 2012

KCC WICHITA

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

OPERATOR: License # 32948  
Name: Tomlinson Operating, LLC  
Address 1: 7154 W. State St. PMB 302  
Address 2:  
City: Boise State: ID Zip: 83714 +  
Contact Person: Sid Tomlinson  
Phone: (208) 229-1937  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: Wesley Hansen  
Purchaser: NCRA

API No. 15 - 051-26337-0000  
Spot Description:  
SE\_NW\_SE Sec. 15 Twp. 12 S. R. 19  East  West  
1,500 Feet from  North /  South Line of Section  
1,520 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ellis  
Lease Name: Pfeifer Bros. Well #: 1  
Field Name: Ernie  
Producing Formation: Lansing Kansas City

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.):

Elevation: Ground: 2233 Kelly Bushing: 2241  
Total Depth: 3920 Plug Back Total Depth: 3876  
Amount of Surface Pipe Set and Cemented at: 340 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1532 Feet  
If Alternate II completion, cement circulated from: 1532  
feet depth to: surface w/ 230 sx cmt.

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  
 Conv. to GSW  
 Plug Back: Plug Back Total Depth  
 Commingled Permit #:  
 Dual Completion Permit #:  
 SWD Permit #:  
 ENHR Permit #:  
 GSW Permit #:

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 49,000 ppm Fluid volume: 800 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name:  
Lease Name: License #:  
Quarter Sec. Twp. S. R.  East  West  
County: Permit #:

7-03-2012 7-13-2012 8-23-2013  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Sid Tomlinson  
Title: member Date: 9/26/12

KCC Office Use ONLY

- Letter of Confidentiality Received Date:
- Confidential Release Date:
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: Dlg Date: 10/16/12

Operator Name: Tomlinson Operating, LLC Lease Name: Pfeifer Bros. Well #: 1  
 Sec. 15 Twp. 12 S. R. 19  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

|   |   |   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
|---|---|---|----------------------------------|---------------------------------|------|-----|-------|-----------|------|------|--------|------|-------|---------|------|-------|---------|------|-------|-----|------|-------|----|------|-------|
| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><b>Log Tech ran Radiation Guard and Microlog.</b> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>Anhydrite</td> <td>1560</td> <td>+681</td> </tr> <tr> <td>Topeka</td> <td>3258</td> <td>-1017</td> </tr> <tr> <td>Heebner</td> <td>3485</td> <td>-1244</td> </tr> <tr> <td>Lansing</td> <td>3528</td> <td>-1287</td> </tr> <tr> <td>BKC</td> <td>3762</td> <td>-1521</td> </tr> <tr> <td>TD</td> <td>3920</td> <td>-1679</td> </tr> </table> | <input checked="" type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample | Name | Top | Datum | Anhydrite | 1560 | +681 | Topeka | 3258 | -1017 | Heebner | 3485 | -1244 | Lansing | 3528 | -1287 | BKC | 3762 | -1521 | TD | 3920 | -1679 |
| <input checked="" type="checkbox"/> Log   | Formation (Top), Depth and Datum  | <input type="checkbox"/> Sample         |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| Name  | Top   | Datum                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| Anhydrite   | 1560  | +681                                    |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| Topeka  | 3258  | -1017                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| Heebner   | 3485  | -1244                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| Lansing   | 3528  | -1287                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| BKC   | 3762  | -1521                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |
| TD  | 3920  | -1679                                   |                                  |                                 |      |     |       |           |      |      |        |      |       |         |      |       |         |      |       |     |      |       |    |      |       |

| CASING RECORD <input checked="" 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 |
| Surface   | 12 1/4            | 8 5/8                     | <b>28.0</b>       | 340           | common         | 170          | 2% gel, 3% CaCl            |
| Production  | 7 7/8             | 4 1/2                     | 10.50 & 11.60     | 3919          | common         | 170          | 10% salt                   |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD   |                  |                |              |  |
|---|------------------|----------------|--------------|--|
| Purpose:  | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives                           |
| <input type="checkbox"/> Perforate<br><input checked="" type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone | surface-1532     | multi density  | 230          | cemented port collar at 1532', circulated to surface |
|   |                  |                |              |  |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br>(Amount and Kind of Material Used) | Depth     |
|----------------|---|---|-----------|
| 4              | Lansing K zone 3718-22  | 1000 gals 15 % acid   | 3718-22   |
| 4              | Lansing E & F zones 3602-05 & 3612-14   | 1750 gals 15% acid  | 3602-3614 |
| 4              | Lansing B zone 3562-66  | 1000 gals 15% acid  | 3562-66   |
|                |   |   |           |

TUBING RECORD: Size: 2 3/8 Set At: 3867 Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: 8-24-2012 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

|                                   |           |         |             |               |         |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| Estimated Production Per 24 Hours | Oil Bbbs. | Gas Mcf | Water Bbbs. | Gas-Oil Ratio | Gravity |
|                                   | 24        |         | -0-         |               | 29      |

|   |  |   |
|---|--|---|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input checked="" 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 (Specify) _____ | PRODUCTION INTERVAL:<br><u>3562 -3722</u> |
|---|--|---|

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 988

| Date  | Sec.                  | Twp.                 | Range  | County   | State  | On Location | Finish |
|---|-----------------------|----------------------|--|--|--------|-------------|--------|
| 7-4-12                                      | 15                    | 12                   | 19   | Ellis  | Kansas |             | ZUSAM  |
| Lease <i>Procter Brothers</i>               | Well No. <i>1</i>     |                      | Location <i>T-70 &amp; Yarmouth Rd N to Beckeye Rd SE</i>                        |  |        |             |        |
| Contractor <i>Southwind Drilling Rig Co</i> |                       |                      |  | Owner  |        |             |        |
| Type Job <i>Surface</i>                     |                       |                      |  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |        |             |        |
| Hole Size <i>12 1/4</i>                     | T.D. <i>340</i>       |                      | Charge To <i>Sid Tomlinson</i>   |  |        |             |        |
| Csg. <i>8 3/4</i>                           | Depth <i>340</i>      |                      | Street   |  |        |             |        |
| Tbg. Size                                   | Depth                 |                      | City   |  |        |             |        |
| Tool  | Depth                 |                      | State  |  |        |             |        |
| Cement Left in Csg. <i>10-15</i>            | Shoe Joint            |                      | The above was done to satisfaction and supervision of owner agent or contractor. |  |        |             |        |
| Meas Line                                   | Displace <i>20134</i> |                      | Cement Amount Ordered <i>170 Common</i>  |  |        |             |        |
| <b>EQUIPMENT</b>                            |                       |                      |  | <i>3 1/2" 20' 20'</i>  |        |             |        |
| Pumptrk <i>5</i>                            | No.                   | Cementer             | Common <i>170</i>  |  |        |             |        |
|   |                       | Helper <i>Steve</i>  |  |  |        |             |        |
| Bulktrk <i>8</i>                            | No.                   | Driver <i>Frank</i>  | Poz. Mix   |  |        |             |        |
|   |                       | Driver <i>Frank</i>  |  |  |        |             |        |
| Bulktrk                                     | No.                   | Driver <i>Lennie</i> | Gel. <i>3</i>  |  |        |             |        |
|   |                       | Driver <i>Lennie</i> | Calcium <i>6</i>   |  |        |             |        |
| <b>JOB SERVICES &amp; REMARKS</b>           |                       |                      |  | Hulls  |        |             |        |
| Remarks:                                    |                       |                      |  | Salt   |        |             |        |
| Rat Hole                                    |                       |                      |  | Flowseal   |        |             |        |
| Mouse Hole                                  |                       |                      |  | Kol-Seal   |        |             |        |
| Centralizers                                |                       |                      |  | Mud CLR 48   |        |             |        |
| Baskets                                     |                       |                      |  | CFL-117 or CD110 CAF 38  |        |             |        |
| D/V or Port Collar                          |                       |                      |  | Sand   |        |             |        |
|   |                       |                      |  | Handling <i>179</i>  |        |             |        |
|   |                       |                      |  | Mileage <i>179</i>   |        |             |        |
| <b>FLOAT EQUIPMENT</b>                      |                       |                      |  |  |        |             |        |
|   |                       |                      |  | Guide Shoe   |        |             |        |
|   |                       |                      |  | Centralizer  |        |             |        |
|   |                       |                      |  | Baskets  |        |             |        |
|   |                       |                      |  | AFU Inserts  |        |             |        |
|   |                       |                      |  | Float Shoe   |        |             |        |
|   |                       |                      |  | Latch Down   |        |             |        |
|   |                       |                      |  | <i>SWAGE</i>   |        |             |        |
|   |                       |                      |  | Pumptrk Charge <i>Surface</i>  |        |             |        |
|   |                       |                      |  | Mileage <i>12</i>  |        |             |        |
|   |                       |                      |  | Tax  |        |             |        |
|   |                       |                      |  | Discount   |        |             |        |
|   |                       |                      |  | Total Charge   |        |             |        |
| X Signature <i>[Signature]</i>              |                       |                      |  |  |        |             |        |

RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 01 2012

CONSERVATION DIVISION  
WICHITA, KS

RECEIVED

OCT 15 2012

KCC WICHIT

*Thank you*

Quality Oilwell Cementing

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 761

| Date  | Sec.          | Twp.                | Range          | County   | State | On Location | Finish |
|---|---------------|---------------------|----------------|--|-------|-------------|--------|
| 7-27-12                                       | 15            | 12                  | 19             | Ellis  | KS    |             | 9:00   |
| Lease <u>PETER Brothers</u> Well No. <u>1</u> |               |                     |                | Location <u>Cementite &amp; Bridge Rd 3/4 E into</u>   |       |             |        |
| Contractor <u>EXPRESS</u>                     |               |                     |                | Owner  |       |             |        |
| Type Job <u>Port Collar</u>                   |               |                     |                | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |       |             |        |
| Hole Size <u>7 7/8</u>                        |               | T.D.                |                | Charge To <u>Thomlinson Operations LLC</u>   |       |             |        |
| Csg. <u>4 1/2</u>                             |               | Depth               |                | Street   |       |             |        |
| Tbg. Size <u>2 3/8</u>                        |               | Depth               |                | City   |       |             |        |
| Tool <u>Quality Tool Casing</u>               |               | Depth <u>15.33</u>  |                | State  |       |             |        |
| Cement Left in Csg.                           |               | Shoe Joint          |                | The above was done to satisfaction and supervision of owner agent or contractor.   |       |             |        |
| Meas Line                                     |               | Displace <u>4BL</u> |                | Cement Amount Ordered <u>300 QMDC YK #10</u>   |       |             |        |
| <b>EQUIPMENT</b>                              |               |                     |                | <u>USED 230SK</u>  |       |             |        |
| Pumptrk                                       | <u>5</u> No.  | Cementer            | <u>Clayton</u> | Common   |       |             |        |
| Bulktrk                                       | No.           | Driver              | <u>Craig</u>   | Poz. Mix   |       |             |        |
| Bulktrk                                       | <u>12</u> No. | Driver              | <u>Lonnie</u>  | Gel.   |       |             |        |
| <b>JOB SERVICES &amp; REMARKS</b>             |               |                     |                | Calcium  |       |             |        |
| Remarks:                                      |               |                     |                | Hulls  |       |             |        |
| Rat Hole                                      |               |                     |                | Salt   |       |             |        |
| Mouse Hole                                    |               |                     |                | Flowseal <u>75#</u>  |       |             |        |
| Centralizers                                  |               |                     |                | Kol-Seal   |       |             |        |
| Baskets                                       |               |                     |                | Mud CLR 48   |       |             |        |
| D/V or Port Collar                            |               |                     |                | CFL-117 or CD110 CAF 38  |       |             |        |
| <u>Test Casing to 1000ft. (Pm Tr 1)</u>       |               |                     |                | Sand   |       |             |        |
| <u>Test Completion M. 230SK</u>               |               |                     |                | Handling <u>300</u>  |       |             |        |
| <u>XD. splacer</u>                            |               |                     |                | Mileage  |       |             |        |
| <u>Cement Checked!</u>                        |               |                     |                | <b>FLOAT EQUIPMENT</b>   |       |             |        |
| <u>Rent 54 wash clean</u>                     |               |                     |                | Guide Shoe   |       |             |        |
|   |               |                     |                | Centralizer  |       |             |        |
|   |               |                     |                | Baskets  |       |             |        |
|   |               |                     |                | AFU Inserts  |       |             |        |
|   |               |                     |                | Float Shoe   |       |             |        |
|   |               |                     |                | Latch Down   |       |             |        |
|   |               |                     |                | Pumptrk Charge <u>port collar</u>  |       |             |        |
|   |               |                     |                | Mileage <u>12</u>  |       |             |        |
|   |               |                     |                | Tax  |       |             |        |
|   |               |                     |                | Discount   |       |             |        |
|   |               |                     |                | Total Charge   |       |             |        |
| Signature <u>Fernando P. Peshes</u>           |               |                     |                |  |       |             |        |

RECEIVED  
KANSAS CORPORATION COMMISSION

OCT 01 2012

CONSERVATION DIVISION  
WICHITA, KS

RECEIVED

OCT 15 2012

KCC WICHITA

Quality Oilwell  
Cementing

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 804

|                     |                        |      |    |            |        |       |    |  |                                       |       |        |             |  |        |           |
|---------------------|------------------------|------|----|------------|--------|-------|----|--|---------------------------------------|-------|--------|-------------|--|--------|-----------|
| Date                | 7-13-12                | Sec. | 15 | Twp.       | 12     | Range | 19 | County   | ELLIS                                 | State | KANSAS | On Location |  | Finish | 11:00 PM  |
| Lease               | PREFER BOOTHS          |      |    | Well No.   | #1     |       |    | Location   | HAYS N TO BUCKEYE RD - 5 W - N - INTO |       |        |             |  |        |           |
| Contractor          | SOUTHWIND DEALING #6   |      |    |            |        |       |    | Owner  | TOMLINSON OPERATING                   |       |        |             |  |        |           |
| Type Job            | PROD. STRING           |      |    |            |        |       |    | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |                                       |       |        |             |  |        |           |
| Hole Size           | 8 7/8"                 |      |    | T.D.       | 3920'  |       |    | Charge To  | TOMLINSON OPERATING                   |       |        |             |  |        |           |
| Csg.                | 4 1/2" 10.5# 11.6# NEW |      |    | Depth      | 3917'  |       |    | Street   | 7154 W. STATE ST. PMB 302             |       |        |             |  |        |           |
| Tbg. Size           |                        |      |    | Depth      |        |       |    | City   | BOSS                                  |       |        | State       |  |        | IN, 83714 |
| Tool                |                        |      |    | Depth      |        |       |    | The above was done to satisfaction and supervision of owner agent or contractor.   |                                       |       |        |             |  |        |           |
| Cement Left in Csg. |                        |      |    | Shoe Joint | 42.25  |       |    | Cement Amount Ordered  | 200com - 10% SALT                     |       |        |             |  |        |           |
| Meas Line           |                        |      |    | Displace   | 60 BLS |       |    |  |                                       |       |        |             |  |        |           |

### EQUIPMENT

|             |     |          |       |          |     |
|-------------|-----|----------|-------|----------|-----|
| Pumptrk #15 | No. | Cementer | NECK  | Common   | 200 |
| Bulktrk #10 | No. | Driver   | LEVY  | Poz. Mix |     |
| Bulktrk PU  | No. | Driver   | CISCO | Gel.     |     |

### JOB SERVICES & REMARKS

|                    |        |                      |         |
|--------------------|--------|----------------------|---------|
| Remarks:           |        | Calcium              |         |
| Rat Hole           | 30 SKS | Hulls                |         |
| Mouse Hole         | NONE   | Salt                 | 17      |
| Centralizers       |        | Flowseal             |         |
| Baskets            |        | Kol-Seal             |         |
| D/V or Port Collar |        | Mud CLR 48           | 500 GAL |
|                    |        | CFL-117 or CD110 CAF | 38      |

BROKE CIRCULATION, CIRCULATED - 30 MIN - DROPPED BALL - CIRCULATED ADDITIONAL 30 MIN - PUMPED 10 BLS WATER SPACER FOLLOWED WITH 500 GAL MUD CLR 48 - PLUGGED RATHOLE 30 SKS CONNECTED TO 4 1/2" MIXER 170 SKS - DISCONNECTED WASHED UP & DROPPED PLUG - RE-CONNECTED DISPLACED - PLUG LANNED & HELD.

Sand  
Handling  
Mileage

RECEIVED  
OCT 15 2012  
KCC WICHITA

### FLOAT EQUIPMENT

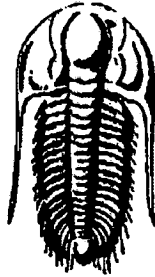
|             |                  |
|-------------|------------------|
| Guide Shoe  |                  |
| Centralizer | 6-4 1/2" TURBOS  |
| Baskets     | 1-4 1/2"         |
| AFU Inserts |                  |
| Float Shoe  | 1-4 1/2"         |
| Latch Down  | 1-4 1/2" w/ PLUG |
|             | 1 port collar    |

|                |                    |
|----------------|--------------------|
| Pumptrk Charge | price shown string |
| Mileage        | 12                 |

THANK YOU!

X Signature *[Signature]*

|              |  |
|--------------|--|
| Tax          |  |
| Discount     |  |
| Total Charge |  |



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Tomlinson Operating LLC**

7154 W State St  
PMB 302  
Boise ID 83714

ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

**15-12s-19w Ellis,KS**

Start Date: 2012.07.09 @ 04:12:36

End Date: 2012.07.09 @ 11:03:06

Job Ticket #: 47796                      DST #: 1

**RECEIVED  
OCT 15 2012**

**KCC WICHITA**

**RECEIVED  
KANSAS CORPORATION COMMISSION**

**OCT 01 2012**

**CONSERVATION DIVISION  
WICHITA, KS**

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

**ORIGINAL**

Printed: 2012.07.19 @ 16:08:01

Tomlinson Operating LLC

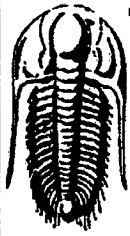
15-12s-19w Ellis,KS

Pfeifer Brothers #1

DST # 1

Oread

2012.07.09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

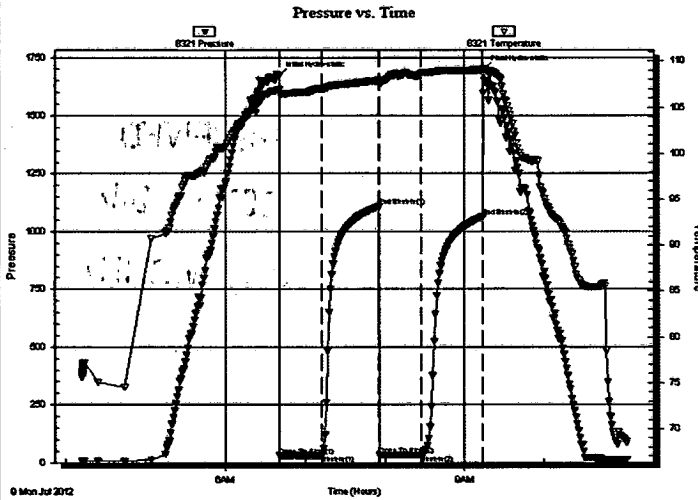
**Pfeifer Brothers #1**  
Job Ticket: 47796      **DST#: 1**  
Test Start: 2012.07.09 @ 04:12:36

## GENERAL INFORMATION:

Formation: **Oread**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 06:41:06  
 Time Test Ended: 11:03:06  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jeff Brown  
 Unit No: 44  
 Interval: **3450.00 ft (KB) To 3466.00 ft (KB) (TVD)**  
 Total Depth: 3466.00 ft (KB) (TVD)  
 Reference Elevations: 2241.00 ft (KB)  
 2233.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Good  
 KB to GR/CF: 8.00 ft

**Serial #: 8321**      **Inside**  
 Press@RunDepth: 34.06 psig @ 3451.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.07.09      End Date: 2012.07.09      Last Calib.: 2012.07.09  
 Start Time: 04:12:37      End Time: 11:02:06      Time On Btm: 2012.07.09 @ 06:40:36  
 Time Off Btm: 2012.07.09 @ 09:14:36

TEST COMMENT: IFP-Weak blow built to 1/4"  
 ISI-Dead no blow back  
 FFP-Dead no blow  
 FSI-Dead no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1673.74         | 106.92       | Initial Hydro-static |
| 1           | 30.25           | 106.58       | Open To Flow (1)     |
| 32          | 33.22           | 107.02       | Shut-In(1)           |
| 75          | 1107.45         | 107.89       | End Shut-In(1)       |
| 76          | 32.08           | 107.50       | Open To Flow (2)     |
| 107         | 34.06           | 108.71       | Shut-In(2)           |
| 153         | 1064.12         | 109.07       | End Shut-In(2)       |
| 154         | 1698.92         | 109.22       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 10.00       | MVW with oil spots 45 %M 55%W | 0.14         |
|             |                               |              |
|             |                               |              |
|             |                               |              |
|             |                               |              |

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

Pfeifer Brothers #1

Job Ticket: 47796

DST#: 1

Test Start: 2012.07.09 @ 04:12:36

### GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:41:06

Time Test Ended: 11:03:06

Test Type: Conventional Bottom Hole (Initial)

Tester: Jeff Brown

Unit No: 44

Interval: **3450.00 ft (KB) To 3466.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3466.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: **8737**

Outside

Press@RunDepth: psig @ 3451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.09

End Date:

2012.07.09

Last Calib.:

2012.07.09

Start Time: 04:12:03

End Time:

11:01:32

Time On Btm:

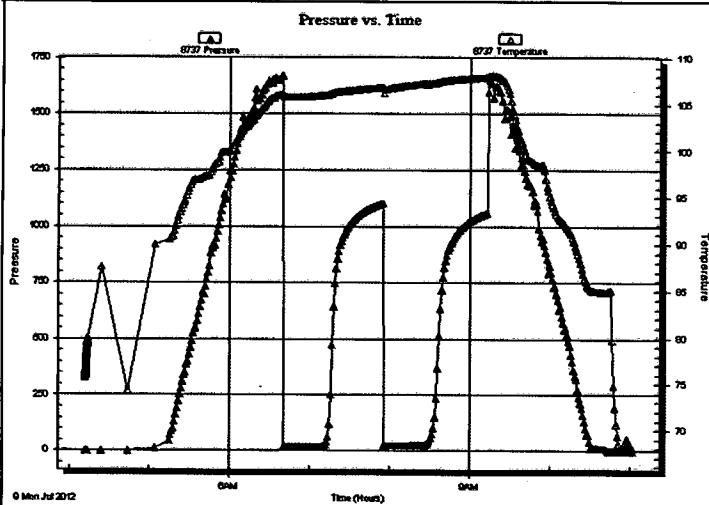
Time Off Btm:

TEST COMMENT: IFP-Weak blow built to 1/4"

ISI-Dead no blow back

FFP-Dead no blow

FSI-Dead no blow back



### PRESSURE SUMMARY

| Time (Min.)                                     | Pressure (psig) | Temp (deg F) | Annotation |
|---|-----------------|--------------|------------|
| <b>RECEIVED<br/>OCT 15 2012<br/>KCC WICHITA</b> |                 |              |            |

### Recovery

| Length (ft) | Description                   | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 10.00       | MVW with oil spots 45 %M 55%W | 0.14         |
|             |                               |              |
|             |                               |              |
|             |                               |              |
|             |                               |              |
|             |                               |              |

### Gas Rates

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





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47796

DST#: 1

Boise ID 83714

Test Start: 2012.07.09 @ 04:12:36

ATTN: Sid Tomlinson

### Tool Information

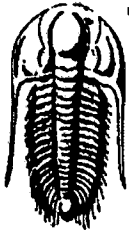
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3444.00 ft | Diameter: 3.80 inches | Volume: 48.31 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 48000.00 lb  |
|                           |                    |                       | <u>Total Volume: 48.31 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 22.00 ft           |                       |                                | String Weight: Initial 35000.00 lb |
| Depth to Top Packer:      | 3450.00 ft         |                       |                                | Final 35000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 16.00 ft           |                       |                                |                                    |
| Tool Length:              | 44.00 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        |            |          | 3423.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3428.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3433.00    |                               |
| Jars             | 5.00        |            |          | 3438.00    |                               |
| Safety Joint     | 3.00        |            |          | 3441.00    |                               |
| Packer           | 4.00        |            |          | 3445.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3450.00    |                               |
| Stubb            | 1.00        |            |          | 3451.00    |                               |
| Recorder         | 0.00        | 8321       | Inside   | 3451.00    |                               |
| Recorder         | 0.00        | 8737       | Outside  | 3451.00    |                               |
| Perforations     | 12.00       |            |          | 3463.00    |                               |
| Bullnose         | 3.00        |            |          | 3466.00    | 16.00 Bottom Packers & Anchor |

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**  
Job Ticket: 47796      DST#: 1  
Test Start: 2012.07.09 @ 04:12:36

**Mud and Cushion Information**

|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 59.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 6.78 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 1300.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

**Recovery Information**

Recovery Table

| Length<br>ft | Description                  | Volume<br>bbl |
|--------------|------------------------------|---------------|
| 10.00        | MW with oil spots 45 %M 55%W | 0.140         |

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

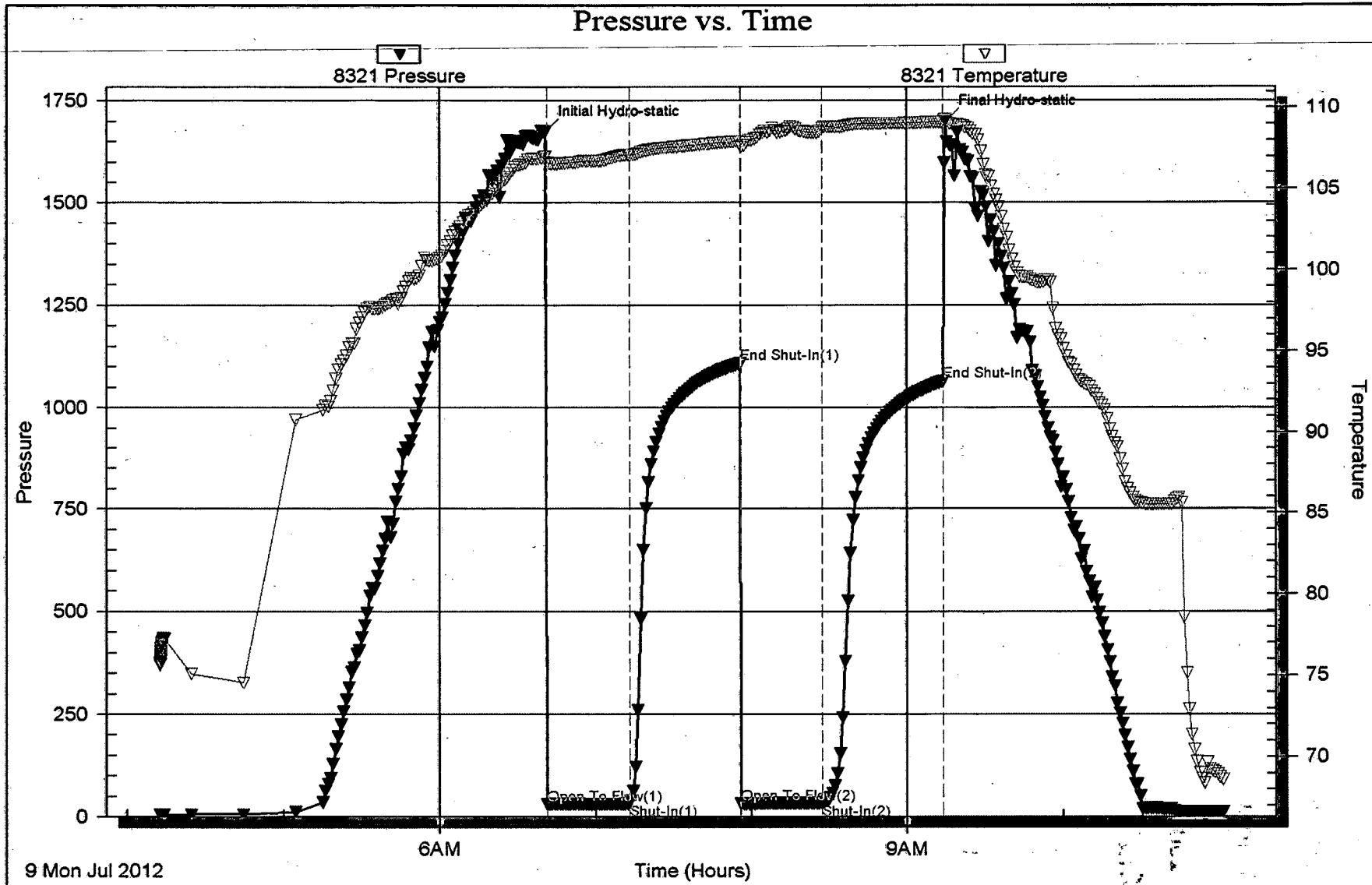
**RECEIVED  
OCT 15 2012  
KCC WICHITA**

Serial #: 8321

Inside Tomlinson Operating LLC

Peifer Brothers #1

DST Test Number: 1



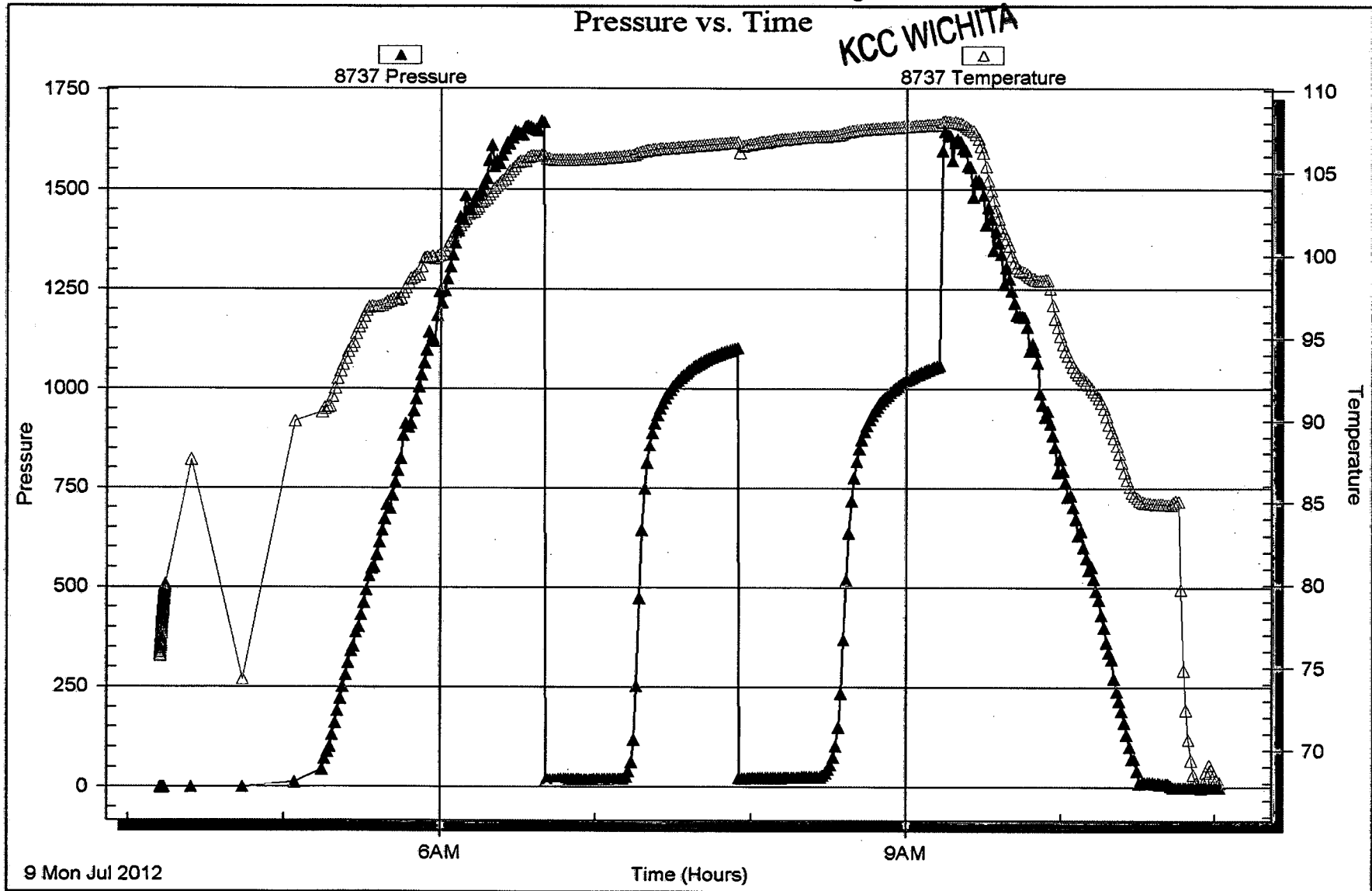
Serial #: 8737

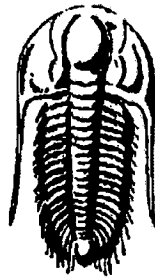
Outside Tomlinson Operating LLC

Feifer Brothers #1

RECEIVED  
OCT 15 2012

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St  
PMB 302  
Boise ID 83714

ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

**15-12s-19w Ellis,KS**

Start Date: 2012.07.09 @ 22:59:25

End Date: 2012.07.10 @ 06:12:55

Job Ticket #: 47797                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.19 @ 16:07:19

Tomlinson Operating LLC

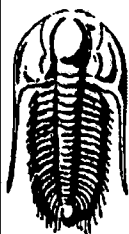
15-12s-19w Ellis,KS

Pfeifer Brothers #1

DST # 2

Lansing-B

2012.07.09



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

Job Ticket: 47797

DST#: 2

Test Start: 2012.07.09 @ 22:59:25

## GENERAL INFORMATION:

Formation: **Lansing-B**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:30:55

Time Test Ended: 06:12:55

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3540.00 ft (KB) To 3571.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3571.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321** Inside

Press@RunDepth: 46.05 psig @ 3543.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.09

End Date: 2012.07.10

Last Calib.: 2012.07.10

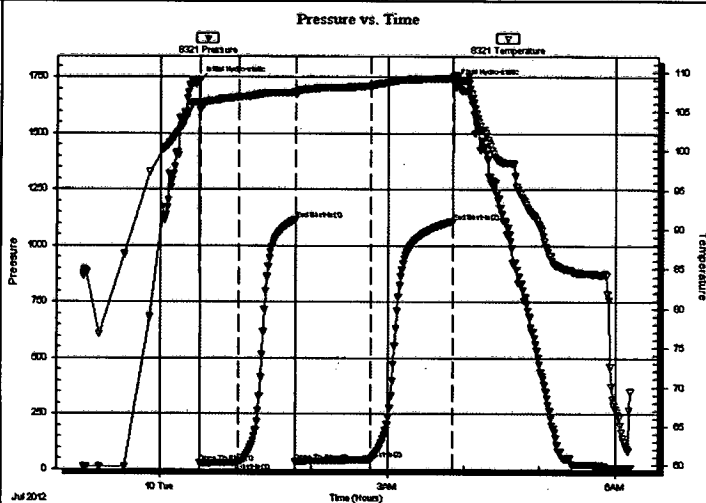
Start Time: 22:59:26

End Time: 06:11:55

Time On Btm: 2012.07.10 @ 00:30:25

Time Off Btm: 2012.07.10 @ 03:51:55

TEST COMMENT: IFP-Fair blow built to 8"  
ISI-Dead no blow back  
FFP-Good blow BOB in 22 min  
FSI-Dead no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1734.93         | 106.12       | Initial Hydro-static |
| 1           | 28.46           | 105.12       | Open To Flow (1)     |
| 32          | 30.93           | 106.80       | Shut-In(1)           |
| 76          | 1117.48         | 107.39       | End Shut-In(1)       |
| 77          | 35.45           | 107.19       | Open To Flow (2)     |
| 136         | 46.05           | 108.23       | Shut-In(2)           |
| 201         | 1108.19         | 109.19       | End Shut-In(2)       |
| 202         | 1727.93         | 109.44       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 67.00       | MCGO 30%M 15%G 55%O | 0.94         |
| 0.00        | 186-Gip             | 0.00         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

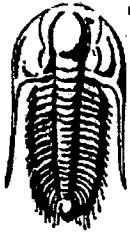
\* Recovery from multiple tests

## Gas Rates

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

RECEIVED  
OCT 15 2012

KCC WICHITA



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Tomlinson Operating LLC

**15-12s-19w Ellis, KS**

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

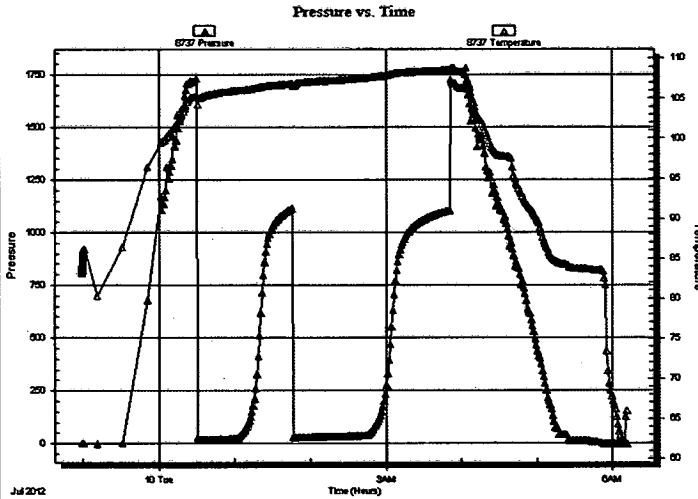
**Pfeifer Brothers #1**  
Job Ticket: 47797 **DST#: 2**  
Test Start: 2012.07.09 @ 22:59:25

**GENERAL INFORMATION:**

Formation: **Lansing-B**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:30:55  
Time Test Ended: 06:12:55  
Interval: **3540.00 ft (KB) To 3571.00 ft (KB) (TVD)**  
Total Depth: 3571.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 2241.00 ft (KB)  
2233.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jeff Brown  
Unit No: 44

**Serial #: 8737** Outside  
Press@RunDepth: psig @ 3543.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.07.09 End Date: 2012.07.10 Last Calib.: 2012.07.10  
Start Time: 22:59:04 End Time: 06:12:03 Time On Btm:  
Time Off Btm:

TEST COMMENT: IFP-Fair blow built to 8"  
ISI-Dead no blow back  
FFP-Good blow BOB in 22 min  
FSI-Dead no blow back



**PRESSURE SUMMARY**

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

**Recovery**

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 67.00       | MCGO 30%M 15%G 55%O | 0.94         |
| 0.00        | 186-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

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

Job Ticket: 47797

DST#: 2

Test Start: 2012.07.09 @ 22:59:25

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3537.00 ft | Diameter: 3.80 inches | Volume: 49.61 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 45000.00 lb  |
|                           |                    |                       | <u>Total Volume: 49.61 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                                | String Weight: Initial 35000.00 lb |
| Depth to Top Packer:      | 3540.00 ft         |                       |                                | Final 37000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 31.00 ft           |                       |                                |                                    |
| Tool Length:              | 59.00 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        |            |          | 3513.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3518.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3523.00    |                               |
| Jars             | 5.00        |            |          | 3528.00    |                               |
| Safety Joint     | 3.00        |            |          | 3531.00    |                               |
| Packer           | 4.00        |            |          | 3535.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3540.00    |                               |
| Stubb            | 1.00        |            |          | 3541.00    |                               |
| Perforations     | 2.00        |            |          | 3543.00    |                               |
| Recorder         | 0.00        | 8321       | Inside   | 3543.00    |                               |
| Recorder         | 0.00        | 8737       | Outside  | 3543.00    |                               |
| Perforations     | 25.00       |            |          | 3568.00    |                               |
| Bullnose         | 3.00        |            |          | 3571.00    | 31.00 Bottom Packers & Anchor |

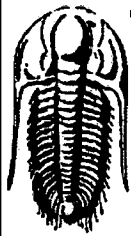
**Total Tool Length: 59.00**

RECEIVED

OCT 15 2012

KCC WICHITA





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47797

DST#: 2

Boise ID 83714

Test Start: 2012.07.09 @ 22:59:25

ATTN: Sid Tomlinson

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: inches

## Recovery Information

### Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 67.00        | MCGO 30%M 15%G 55%O | 0.940         |
| 0.00         | 186-Gip             | 0.000         |

Total Length: 67.00 ft      Total Volume: 0.940 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

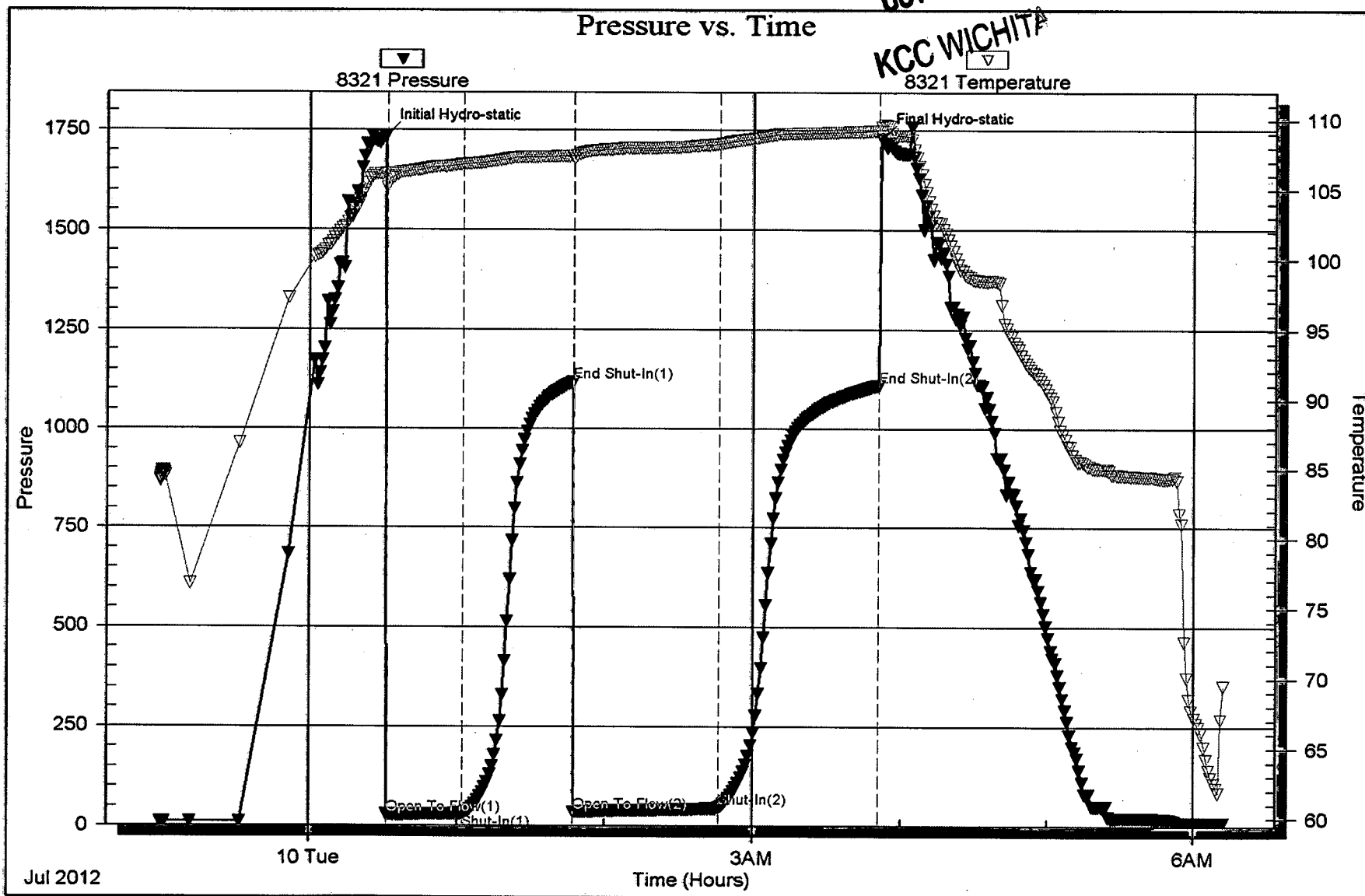
Serial #: 8321

Inside Tomlinson Operating LLC

Reifer Brothers #1

RECEIVED  
OCT 15 2012

DST Test Number: 2

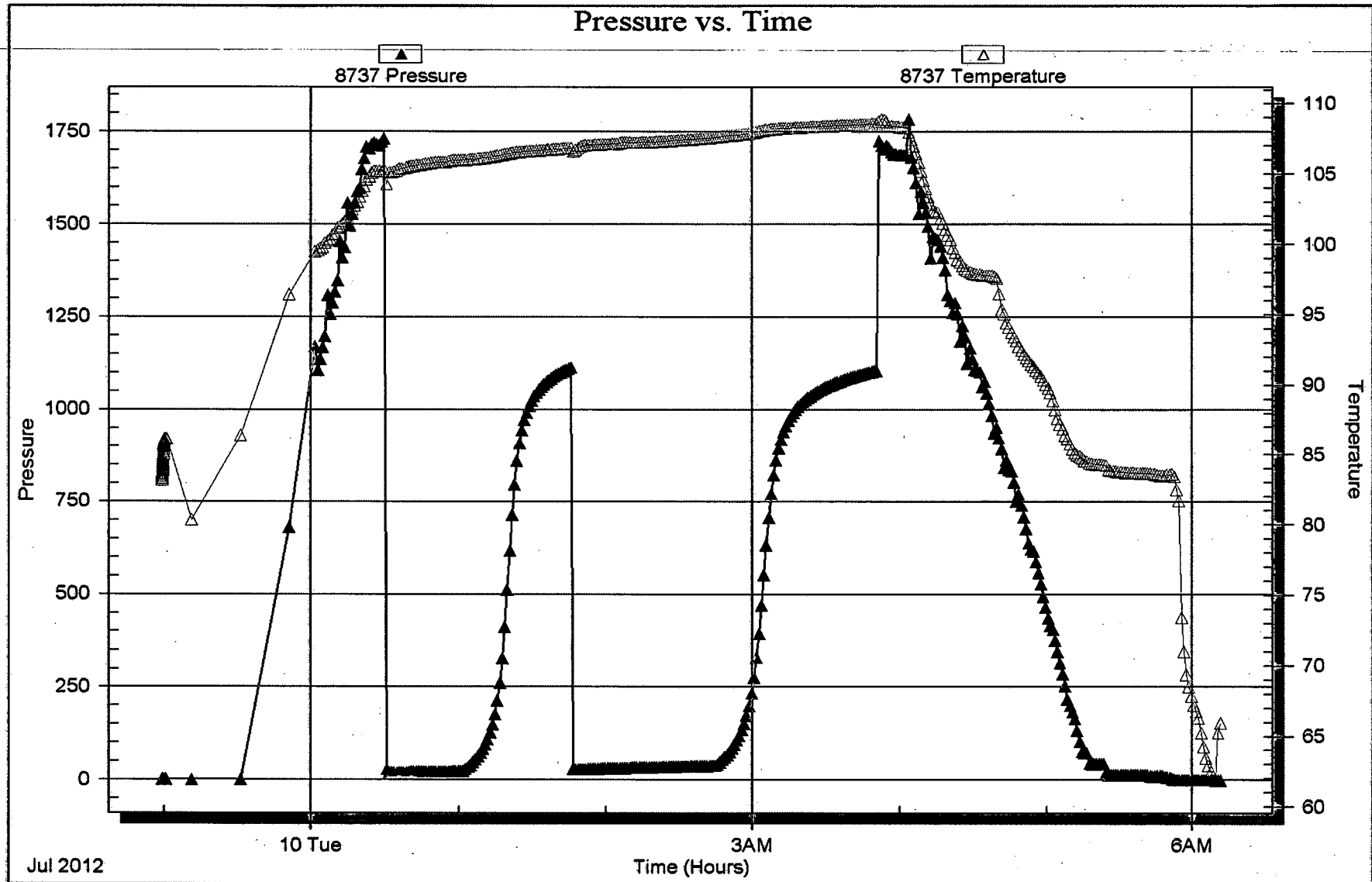


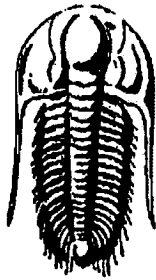
Serial #: 8737

Outside Tominson Operating LLC

Peifer Brothers #1

DST Test Number: 2





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

## DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St  
PMB 302  
Boise ID 83714

ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

**15-12s-19w Ellis,KS**

Start Date: 2012.07.10 @ 16:06:50

End Date: 2012.07.10 @ 23:07:50

Job Ticket #: 47798                      DST #: 3

RECEIVED

OCT 15 2012

KCC WICHITA

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

Printed: 2012.07.19 @ 16:05:43

Tomlinson Operating LLC

15-12s-19w Ellis,KS

Pfeifer Brothers #1

DST # 3

Lansing C-D-E

2012.07.10



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47798

DST#: 3

Boise ID 83714

Test Start: 2012.07.10 @ 16:06:50

ATTN: Sid Tomlinson

## GENERAL INFORMATION:

Formation: **Lansing C-D-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:03:50

Time Test Ended: 23:07:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3573.00 ft (KB) To 3608.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3608.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321** Inside

Press@RunDepth: 50.23 psig @ 3576.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.10

End Date:

2012.07.10

Last Calib.: 2012.07.10

Start Time: 16:06:51

End Time:

23:07:50

Time On Btm: 2012.07.10 @ 18:03:20

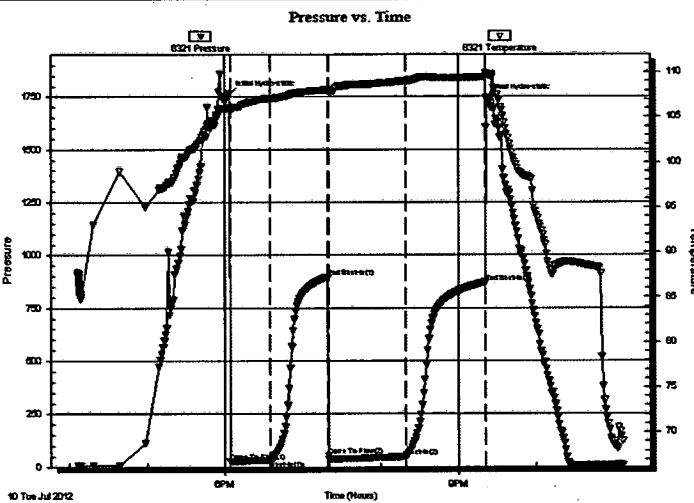
Time Off Btm: 2012.07.10 @ 21:21:50

TEST COMMENT: IFF-Fair blow built to 9 3/4"

ISI-Dead no blow back

FFP-Good blow BOB in 15 1/4 min

FSI-Dead no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1760.77         | 106.14       | Initial Hydro-static |
| 1           | 26.86           | 105.73       | Open To Flow (1)     |
| 31          | 32.13           | 107.08       | Shut-In(1)           |
| 76          | 897.61          | 108.03       | End Shut-In(1)       |
| 77          | 53.15           | 107.84       | Open To Flow (2)     |
| 136         | 50.23           | 109.06       | Shut-In(2)           |
| 198         | 870.99          | 109.48       | End Shut-In(2)       |
| 199         | 1744.80         | 109.79       | Final Hydro-static   |

## Recovery

| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 62.00       | GMCO 10%G 20%M 70%O | 0.87         |
| 15.00       | Gassy Oil 10%G 90%O | 0.21         |
| 0.00        | 387-GIP             | 0.00         |
|             |                     |              |
|             |                     |              |

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**  
Job Ticket: 47798      DST#: 3  
Test Start: 2012.07.10 @ 16:06:50

### GENERAL INFORMATION:

Formation: **Lansing C-D-E**

Deviated: No      Whipstock:      ft (KB)

Time Tool Opened: 18:03:50

Time Test Ended: 23:07:50

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3573.00 ft (KB) To 3608.00 ft (KB) (TVD)

Total Depth: 3608.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2241.00 ft (KB)

2233.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8737      Outside**

Press@RunDepth:      psig @      3576.00 ft (KB)

Start Date: 2012.07.10      End Date: 2012.07.10

Start Time: 16:06:03      End Time: 23:07:02

Capacity: 8000.00 psig

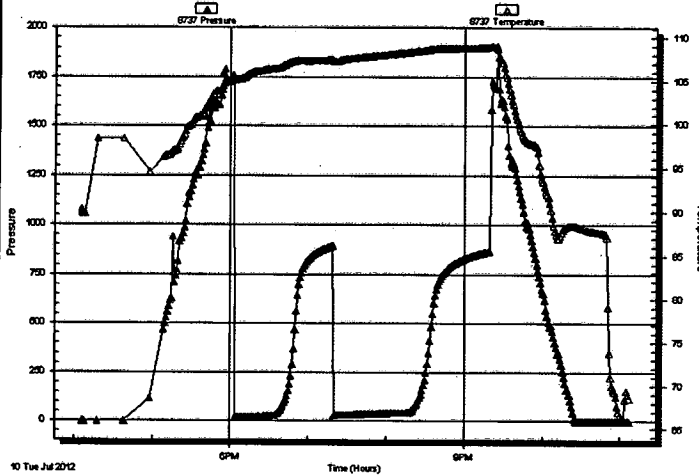
Last Calib.: 2012.07.10

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Fair blow built to 9 3/4"  
ISI-Dead no blow back  
FFP-Good blow BOB in 15 1/4 min  
FSI-Dead no blow back

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

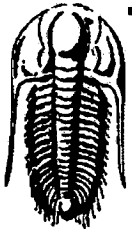
| Length (ft) | Description         | Volume (bbl) |
|-------------|---------------------|--------------|
| 62.00       | GMCO 10%G 20%M 70%O | 0.87         |
| 15.00       | Gassy Oil 10%G 90%O | 0.21         |
| 0.00        | 387-GIP             | 0.00         |
|             |                     |              |
|             |                     |              |
|             |                     |              |

\* Recovery from multiple tests

### Gas Rates

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

RECEIVED  
OCT 15 2012  
KCC WICHITA



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Tomlinson Operating LLC  
7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**15-12s-19w Ellis, KS**  
**Pfeifer Brothers #1**  
Job Ticket: 47798      **DST#: 3**  
Test Start: 2012.07.10 @ 16:06:50

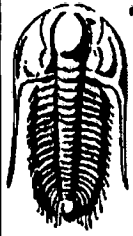
**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3569.00 ft | Diameter: 3.80 inches | Volume: 50.06 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 48000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.06 bbl</u> | Tool Chased: 0.00 ft               |
| Drill Pipe Above KB:      | 24.00 ft           |                       |                                | String Weight: Initial 34000.00 lb |
| Depth to Top Packer:      | 3573.00 ft         |                       |                                | Final 36000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 35.00 ft           |                       |                                |                                    |
| Tool Length:              | 63.00 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        |            |          | 3546.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3551.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3556.00    |                                    |
| Jars             | 5.00        |            |          | 3561.00    |                                    |
| Safety Joint     | 3.00        |            |          | 3564.00    |                                    |
| Packer           | 4.00        |            |          | 3568.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3573.00    |                                    |
| Stubb            | 1.00        |            |          | 3574.00    |                                    |
| Perforations     | 2.00        |            |          | 3576.00    |                                    |
| Recorder         | 0.00        | 8321       | Inside   | 3576.00    |                                    |
| Recorder         | 0.00        | 8737       | Outside  | 3576.00    |                                    |
| Perforations     | 29.00       |            |          | 3605.00    |                                    |
| Bullnose         | 3.00        |            |          | 3608.00    | 35.00      Bottom Packers & Anchor |

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**  
Job Ticket: 47798      DST#: 3  
Test Start: 2012.07.10 @ 16:06:50

**Mud and Cushion Information**

|                                  |                            |                 |            |
|----------------------------------|----------------------------|-----------------|------------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | 27 deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | 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: 1500.00 ppm            |                            |                 |            |
| Filter Cake: inches              |                            |                 |            |

**Recovery Information**

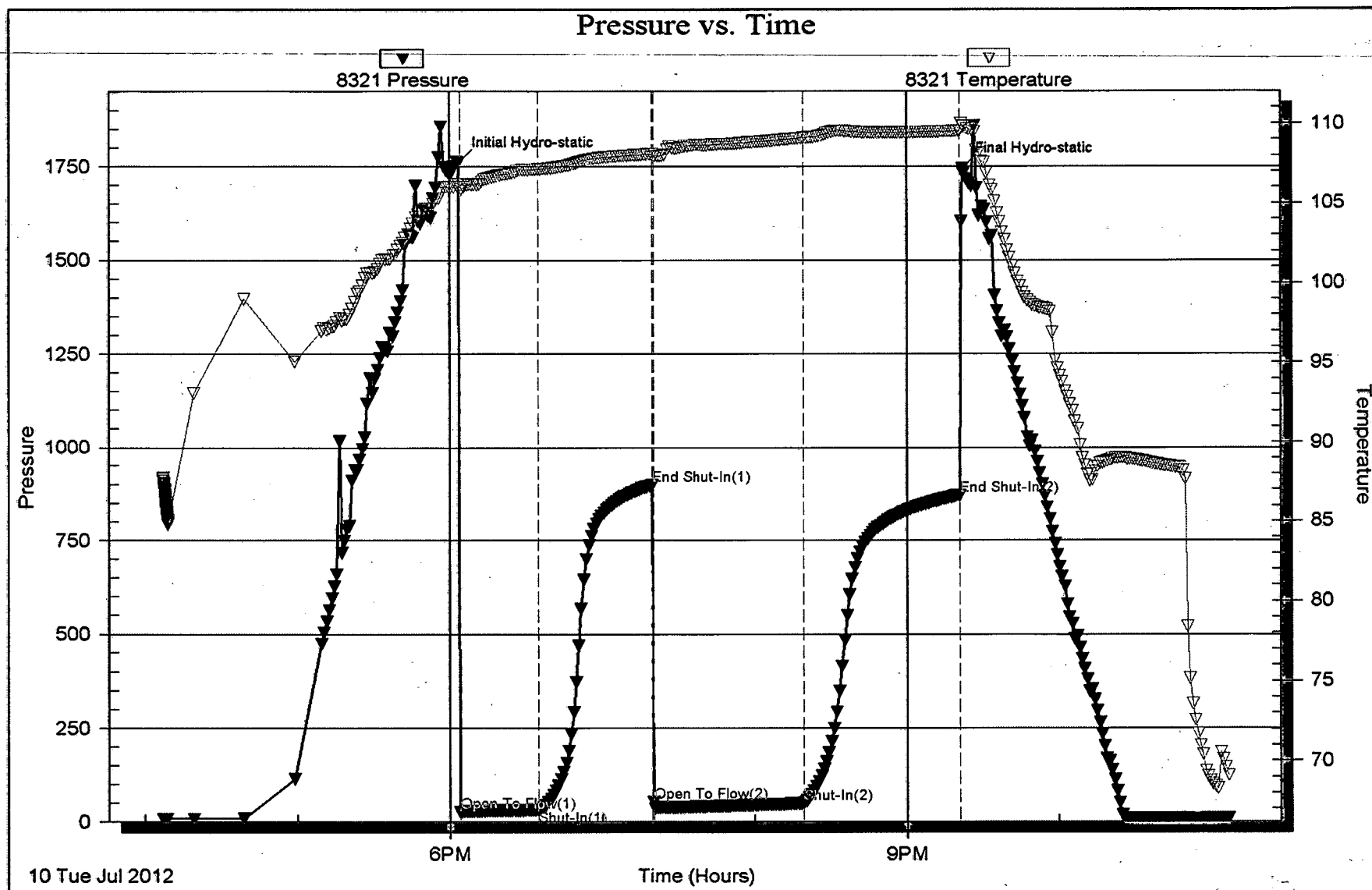
Recovery Table

| Length<br>ft | Description         | Volume<br>bbl |
|--------------|---------------------|---------------|
| 62.00        | GMCO 10%G 20%M 70%O | 0.870         |
| 15.00        | Gassy Oil 10%G 90%O | 0.210         |
| 0.00         | 387-GIP             | 0.000         |

Total Length: 77.00 ft      Total Volume: 1.080 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

RECEIVED  
OCT 15 2012  
KCC WICHITA





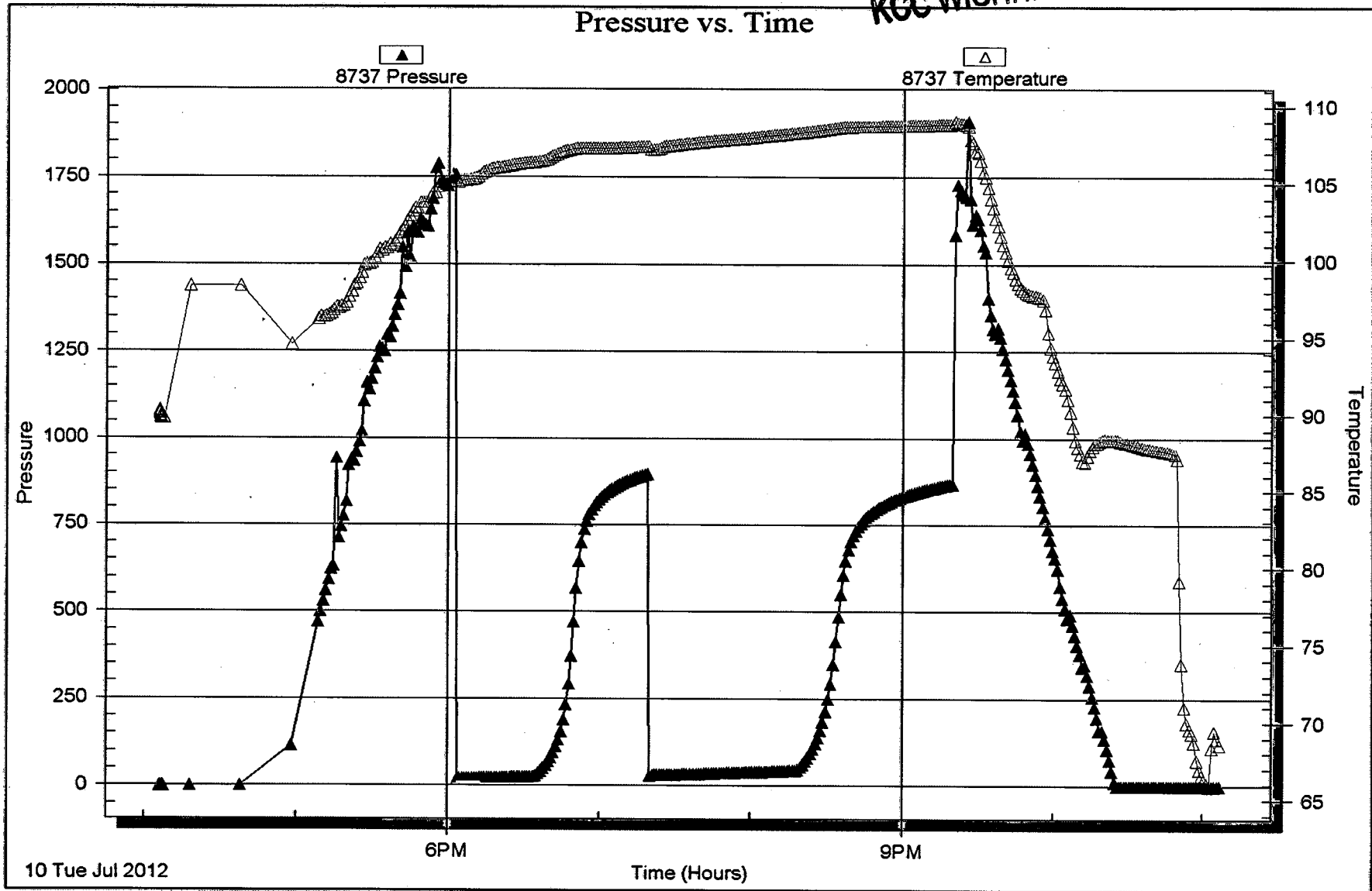
Serial #: 8737

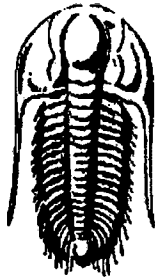
Outside Tomlinson Operating LLC

Pfeifer Brothers #1

DST Test Number: 3

RECEIVED  
OCT 15 2012  
KCC WICHITA





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

## DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St  
PMB 302  
Boise ID 83714

ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

**15-12s-19w Ellis,KS**

Start Date: 2012.07.11 @ 06:20:54

End Date: 2012.07.11 @ 13:34:54

Job Ticket #: 47799                      DST #: 4

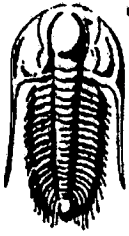
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.19 @ 16:05:05

Tomlinson Operating LLC  
15-12s-19w Ellis,KS  
Pfeifer Brothers #1  
DST # 4  
LKC F  
2012.07.11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

Job Ticket: 47799

DST#: 4

Test Start: 2012.07.11 @ 06:20:54

## GENERAL INFORMATION:

Formation: **LKC F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:54

Time Test Ended: 13:34:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3608.00 ft (KB) To 3618.00 ft (KB) (TVD)**

Total Depth: 3618.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2241.00 ft (KB)

2233.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8321**

Inside

Press@RunDepth: 43.10 psig @ 3609.00 ft (KB)

Start Date: 2012.07.11

End Date:

2012.07.11

Start Time: 06:20:55

End Time:

13:33:54

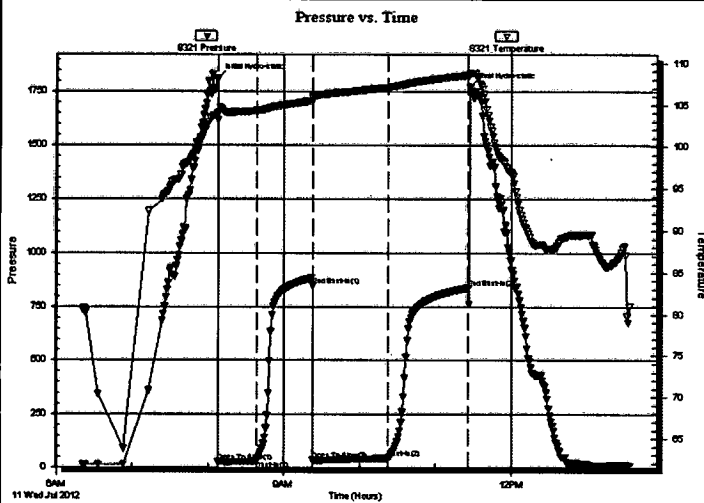
Capacity: 8000.00 psig

Last Calib.: 2012.07.11

Time On Btm: 2012.07.11 @ 08:07:24

Time Off Btm: 2012.07.11 @ 11:27:24

TEST COMMENT: IFP-Weak surface blow then died out  
ISI-Dead no blow back  
FFP-Good blow BOB in 22 1/2 min  
FSI-Dead No blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1810.17         | 103.96       | Initial Hydro-static |
| 1           | 25.99           | 103.22       | Open To Flow (1)     |
| 31          | 28.70           | 104.30       | Shut-In(1)           |
| 75          | 851.53          | 105.46       | End Shut-In(1)       |
| 76          | 35.24           | 105.86       | Open To Flow (2)     |
| 135         | 43.10           | 107.09       | Shut-In(2)           |
| 199         | 841.18          | 108.56       | End Shut-In(2)       |
| 200         | 1769.66         | 108.82       | Final Hydro-static   |

## Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 15.00       | HOCM 25%O 75%M     | 0.21         |
| 54.00       | Gassy Oil 5%G 95%O | 0.76         |
| 0.00        | 403-GIP            | 0.00         |
|             |                    |              |
|             |                    |              |

\* Recovery from multiple tests

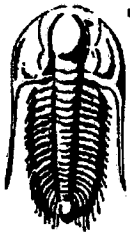
## Gas Rates

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

RECEIVED

OCT 15 2012

KCC WICHITA



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47799

DST#: 4

Boise ID 83714

Test Start: 2012.07.11 @ 06:20:54

ATTN: Sid Tomlinson

## GENERAL INFORMATION:

Formation: LKC F

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:07:54

Time Test Ended: 13:34:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: 3608.00 ft (KB) To 3618.00 ft (KB) (TVD)

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3618.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8737

Outside

Press@RunDepth: psig @ 3609.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.11

End Date: 2012.07.11

Last Calib.: 2012.07.11

Start Time: 06:20:57

End Time: 13:33:56

Time On Btm:

Time Off Btm:

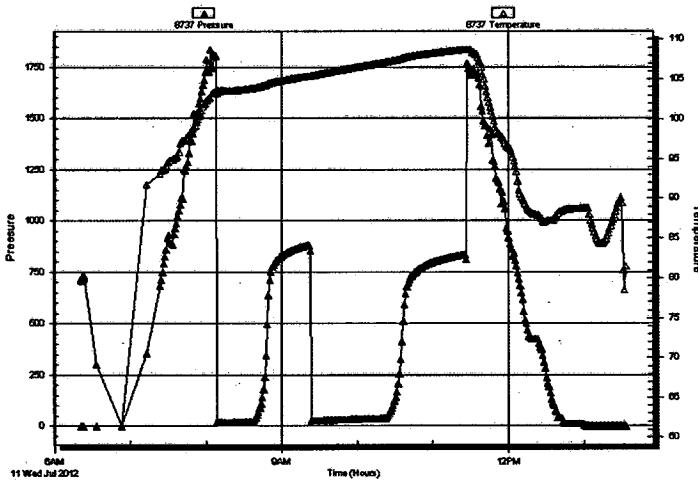
TEST COMMENT: IFP-Weak surface blow then died out

ISI-Dead no blow back

FFP-Good blow BOB in 22 1/2 min

FSI-Dead No blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

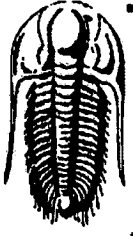
## Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 15.00       | HOCM 25%O 75%M     | 0.21         |
| 54.00       | Gassy Oil 5%G 95%O | 0.76         |
| 0.00        | 403-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**

Tomlinson Operating LLC  
7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**15-12s-19w Ellis,KS**  
**Pfeifer Brothers #1**  
Job Ticket: 47799      DST#: 4  
Test Start: 2012.07.11 @ 06:20:54

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3599.00 ft | Diameter: 3.80 inches | Volume: 50.48 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 42000.00 lb  |
|                           |                    |                       | <u>Total Volume: 50.48 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial 35000.00 lb |
| Depth to Top Packer:      | 3608.00 ft         |                       |                                | Final 36000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 10.00 ft           |                       |                                |                                    |
| Tool Length:              | 38.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

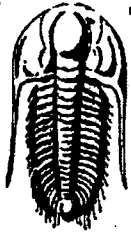
Tool Comments:

**Tool Description**

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                     |
|------------------|-------------|------------|----------|------------|------------------------------------|
| Change Over Sub  | 1.00        |            |          | 3581.00    |                                    |
| Shut In Tool     | 5.00        |            |          | 3586.00    |                                    |
| Hydraulic tool   | 5.00        |            |          | 3591.00    |                                    |
| Jars             | 5.00        |            |          | 3596.00    |                                    |
| Safety Joint     | 3.00        |            |          | 3599.00    |                                    |
| Packer           | 4.00        |            |          | 3603.00    | 28.00      Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3608.00    |                                    |
| Stubb            | 1.00        |            |          | 3609.00    |                                    |
| Recorder         | 0.00        | 8321       | Inside   | 3609.00    |                                    |
| Recorder         | 0.00        | 8737       | Outside  | 3609.00    |                                    |
| Perforations     | 6.00        |            |          | 3615.00    |                                    |
| Bullnose         | 3.00        |            |          | 3618.00    | 10.00      Bottom Packers & Anchor |

**Total Tool Length: 38.00**

**RECEIVED  
OCT 15 2012  
KCC WICHITA**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Tomlinson Operating LLC

15-12s-19w Ellis, KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47799

DST#: 4

Boise ID 83714

Test Start: 2012.07.11 @ 06:20:54

ATTN: Sid Tomlinson

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

27 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

### Recovery Table

| Length<br>ft | Description        | Volume<br>bbbl |
|--------------|--------------------|----------------|
| 15.00        | HOCM 25%O 75%M     | 0.210          |
| 54.00        | Gassy Oil 5%G 95%O | 0.757          |
| 0.00         | 403-GIP            | 0.000          |

Total Length: 69.00 ft

Total Volume: 0.967 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

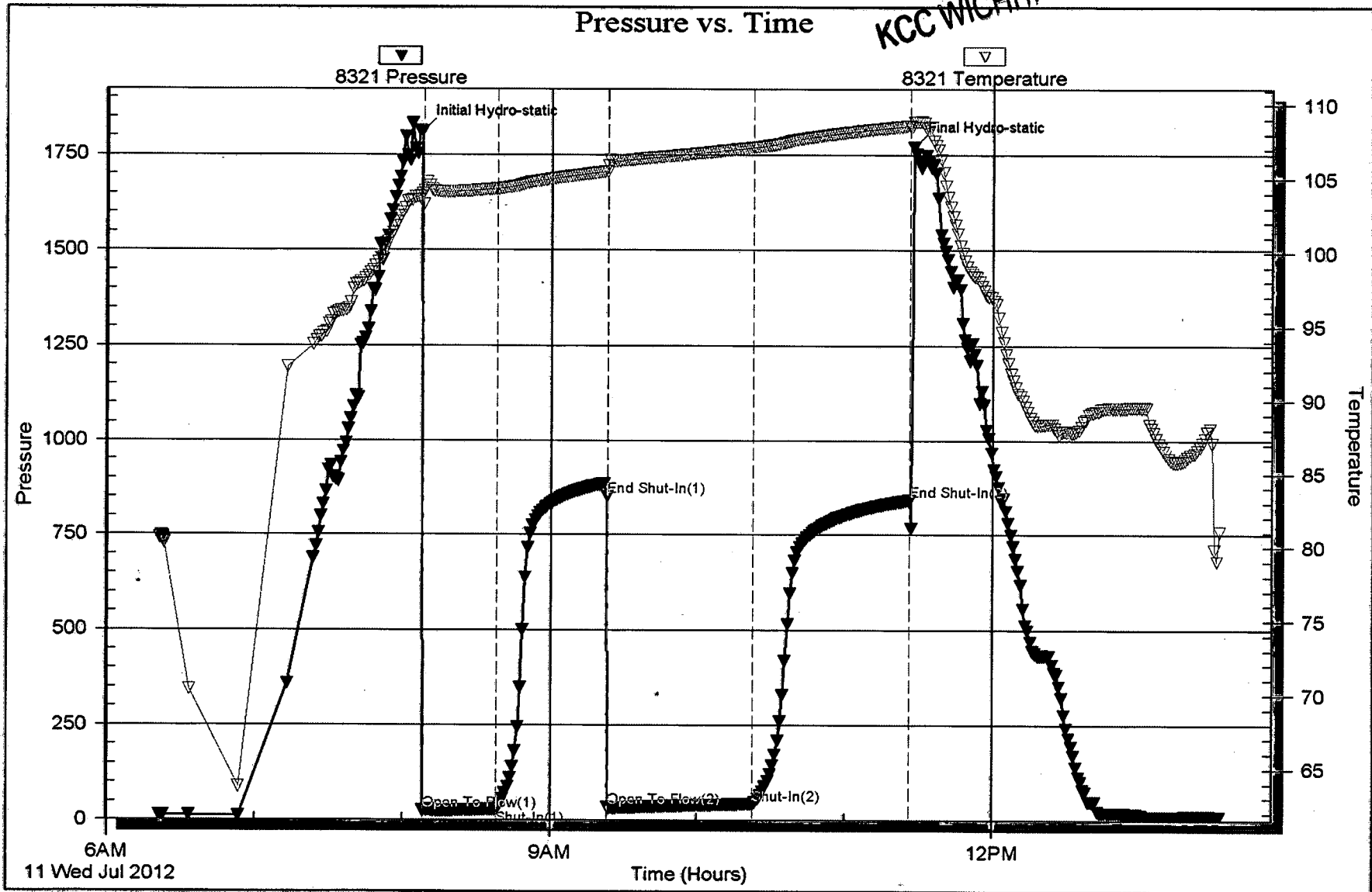
Serial #: 8321

Inside Tomlinson Operating LLC

Pfeifer Brothers #1

RECEIVED  
OCT 15 2012  
KCC WICHITA

DST Test Number: 4



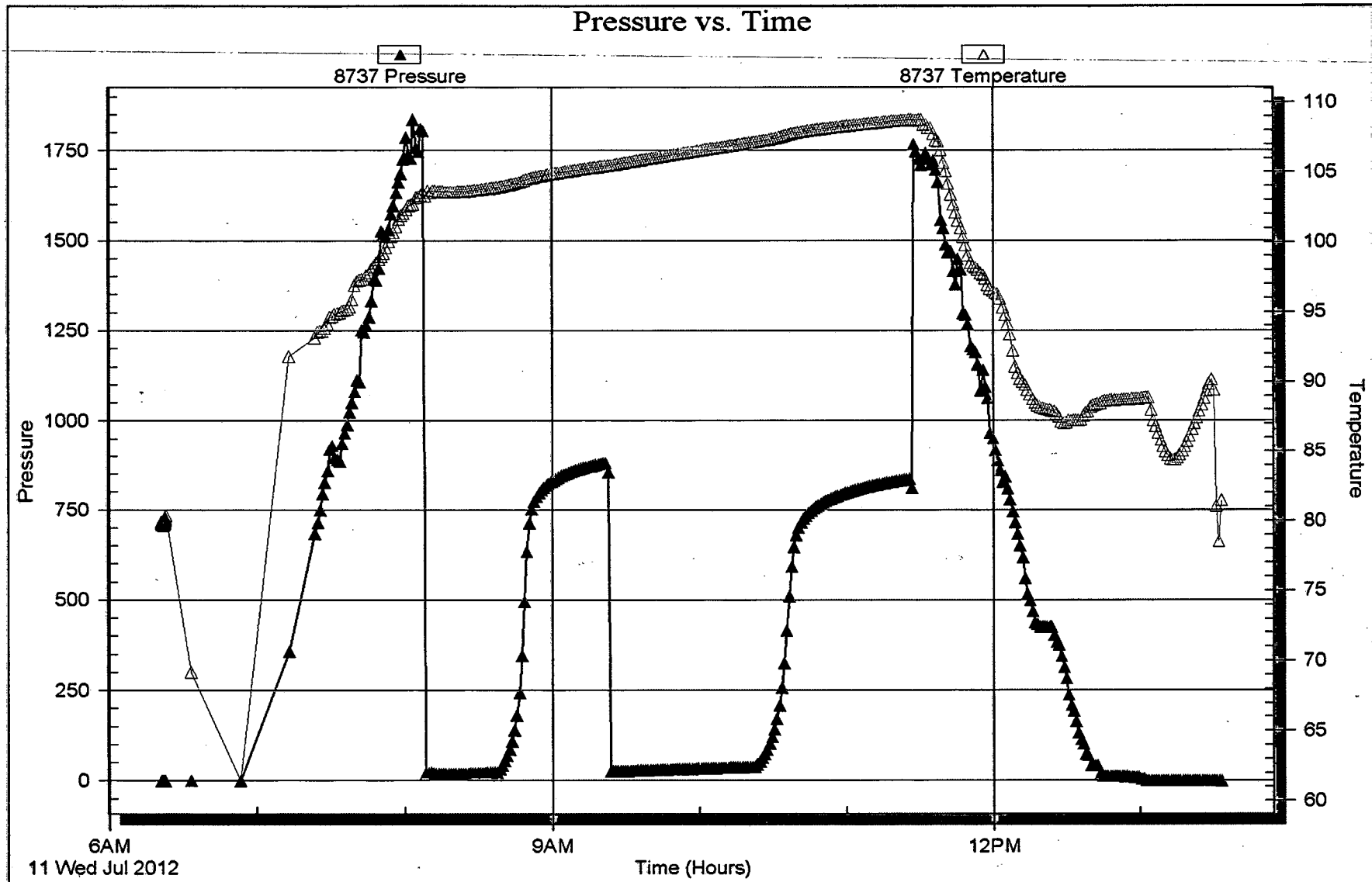


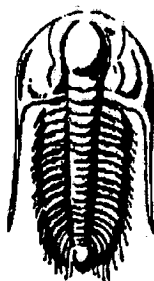
Serial #: 8737

Outside Tomlinson Operating LLC

Feifer Brothers #1

DST Test Number: 4





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

## DRILL STEM TEST REPORT

Prepared For: **Tomlinson Operating LLC**

7154 W State St  
PMB 302  
Boise ID 83714

ATTN: Sid Tomlinson

**Pfeifer Brothers #1**

**15-12s-19w Ellis,KS**

Start Date: 2012.07.12 @ 06:23:34

End Date: 2012.07.12 @ 13:16:04

Job Ticket #: 47800                      DST #: 5

RECEIVED

OCT 15 2012

KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.07.19 @ 16:04:18

Tomlinson Operating LLC

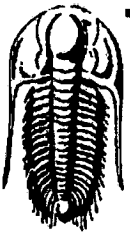
15-12s-19w Ellis,KS

Pfeifer Brothers #1

DST # 5

Lansing I-J-K

2012.07.12



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St

Pfeifer Brothers #1

PMB 302

Job Ticket: 47800

DST#: 5

Boise ID 83714

Test Start: 2012.07.12 @ 06:23:34

ATTN: Sid Tomlinson

## GENERAL INFORMATION:

Formation: **Lansing I-J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:21:34

Time Test Ended: 13:16:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3680.00 ft (KB) To 3736.00 ft (KB) (TVD)**

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3736.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8321** Inside

Press@RunDepth: 44.71 psig @ 3718.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.07.12 End Date: 2012.07.12

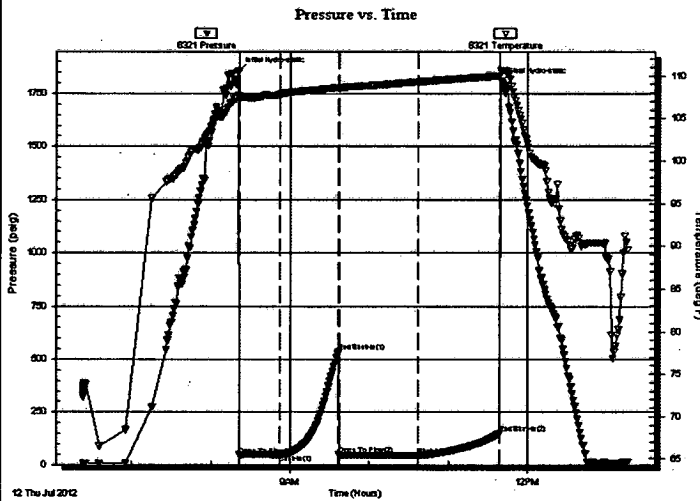
Last Calib.: 2012.07.12

Start Time: 06:23:35 End Time: 13:16:04

Time On Btm: 2012.07.12 @ 08:21:04

Time Off Btm: 2012.07.12 @ 11:40:04

**TEST COMMENT:** IFP-Weak blow Built to 1"  
ISI-Dead no blow back  
FFP-Weak blow built to 1/8"  
FSI-Dead no blow back



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1854.12         | 107.70       | Initial Hydro-static |
| 1           | 47.21           | 107.28       | Open To Flow (1)     |
| 31          | 47.56           | 107.81       | Shut-In(1)           |
| 76          | 536.03          | 108.57       | End Shut-In(1)       |
| 76          | 47.72           | 108.47       | Open To Flow (2)     |
| 136         | 44.71           | 109.27       | Shut-In(2)           |
| 198         | 149.52          | 109.99       | End Shut-In(2)       |
| 199         | 1806.94         | 110.61       | Final Hydro-static   |

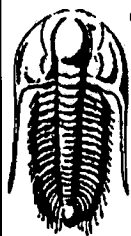
## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 10.00       | OCM,20%O 80%M | 0.14         |
| 5.00        | Free Oil      | 0.07         |
|             |               |              |
|             |               |              |

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

### DRILL STEM TEST REPORT

Tomlinson Operating LLC

**15-12s-19w Ellis,KS**

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**  
Job Ticket: 47800      **DST#: 5**  
Test Start: 2012.07.12 @ 06:23:34

#### GENERAL INFORMATION:

Formation: **Lansing I-J-K**

Deviated: No Whipstock:      ft (KB)

Time Tool Opened: 08:21:34

Time Test Ended: 13:16:04

Test Type: Conventional Bottom Hole (Reset)

Tester: Jeff Brown

Unit No: 44

Interval: **3680.00 ft (KB) To 3736.00 ft (KB) (TVD)**

Reference Elevations:      2241.00 ft (KB)

Total Depth:      3736.00 ft (KB) (TVD)

2233.00 ft (CF)

Hole Diameter:      7.88 inches Hole Condition: Good

KB to GR/CF:      8.00 ft

**Serial #: 8737**

**Outside**

Press@RunDepth:      psig @      3718.00 ft (KB)

Capacity:      8000.00 psig

Start Date:      2012.07.12      End Date:      2012.07.12

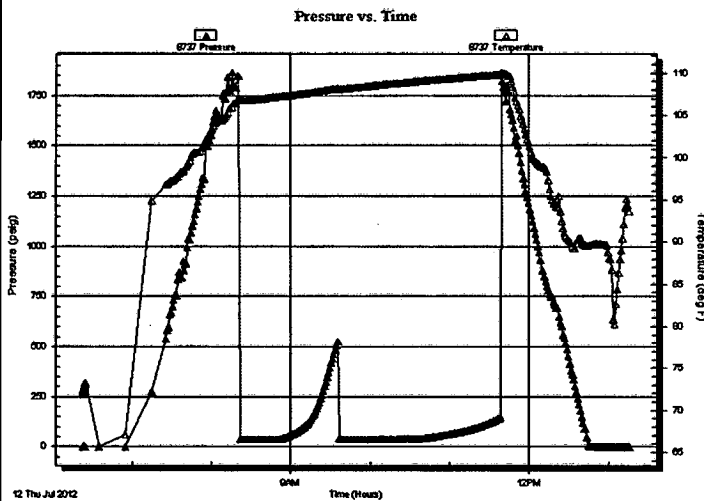
Last Calib.:      2012.07.12

Start Time:      06:23:10      End Time:      13:16:09

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Weak blow Built to 1"  
ISI-Dead no blow back  
FFP-Weak blow built to 1/8"  
FSI-Dead no blow back



#### PRESSURE SUMMARY

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

#### Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 10.00       | OCM 20%O 80%M | 0.14         |
| 5.00        | Free Oil      | 0.07         |
|             |               |              |
|             |               |              |
|             |               |              |

#### Gas Rates

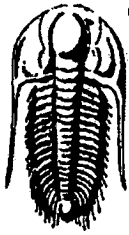
|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
|  |                |                 |                  |

**RECEIVED**

**OCT 15 2012**

**KCC WICHITA**

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Tomlinson Operating LLC

15-12s-19w Ellis,KS

7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**Pfeifer Brothers #1**  
Job Ticket: 47800      DST#: 5  
Test Start: 2012.07.12 @ 06:23:34

**Tool Information**

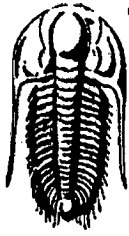
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3662.00 ft | Diameter: 3.80 inches | Volume: 51.37 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.70 inches | Volume: 0.00 bbl               | Weight set on Packer: 22000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 44000.00 lb  |
|                           |                    |                       | <u>Total Volume: 51.37 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 10.00 ft           |                       |                                | String Weight: Initial 36000.00 lb |
| Depth to Top Packer:      | 3680.00 ft         |                       |                                | Final 36000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 56.00 ft           |                       |                                |                                    |
| Tool Length:              | 84.00 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         |      |         | 3653.00 |                                    |
| Shut In Tool              | 5.00         |      |         | 3658.00 |                                    |
| Hydraulic tool            | 5.00         |      |         | 3663.00 |                                    |
| Jars                      | 5.00         |      |         | 3668.00 |                                    |
| Safety Joint              | 3.00         |      |         | 3671.00 |                                    |
| Packer                    | 4.00         |      |         | 3675.00 | 28.00      Bottom Of Top Packer    |
| Packer                    | 5.00         |      |         | 3680.00 |                                    |
| Stubb                     | 1.00         |      |         | 3681.00 |                                    |
| Perforations              | 4.00         |      |         | 3685.00 |                                    |
| Change Over Sub           | 1.00         |      |         | 3686.00 |                                    |
| Drill Pipe                | 31.00        |      |         | 3717.00 |                                    |
| Change Over Sub           | 1.00         |      |         | 3718.00 |                                    |
| Recorder                  | 0.00         | 8321 | Inside  | 3718.00 |                                    |
| Recorder                  | 0.00         | 8737 | Outside | 3718.00 |                                    |
| Perforations              | 15.00        |      |         | 3733.00 |                                    |
| Bullnose                  | 3.00         |      |         | 3736.00 | 56.00      Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>84.00</b> |      |         |         |                                    |



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Tomlinson Operating LLC  
7154 W State St  
PMB 302  
Boise ID 83714  
ATTN: Sid Tomlinson

**15-12s-19w Ellis,KS**  
**Pfeifer Brothers #1**  
Job Ticket: 47800      **DST#: 5**  
Test Start: 2012.07.12 @ 06:23:34

**Mud and Cushion Information**

|                                  |                            |                 |         |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem               | Cushion Type:              | Oil API:        | deg API |
| Mud Weight: 9.00 lb/gal          | Cushion Length: ft         | Water Salinity: | ppm     |
| Viscosity: 49.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 7.19 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 1500.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

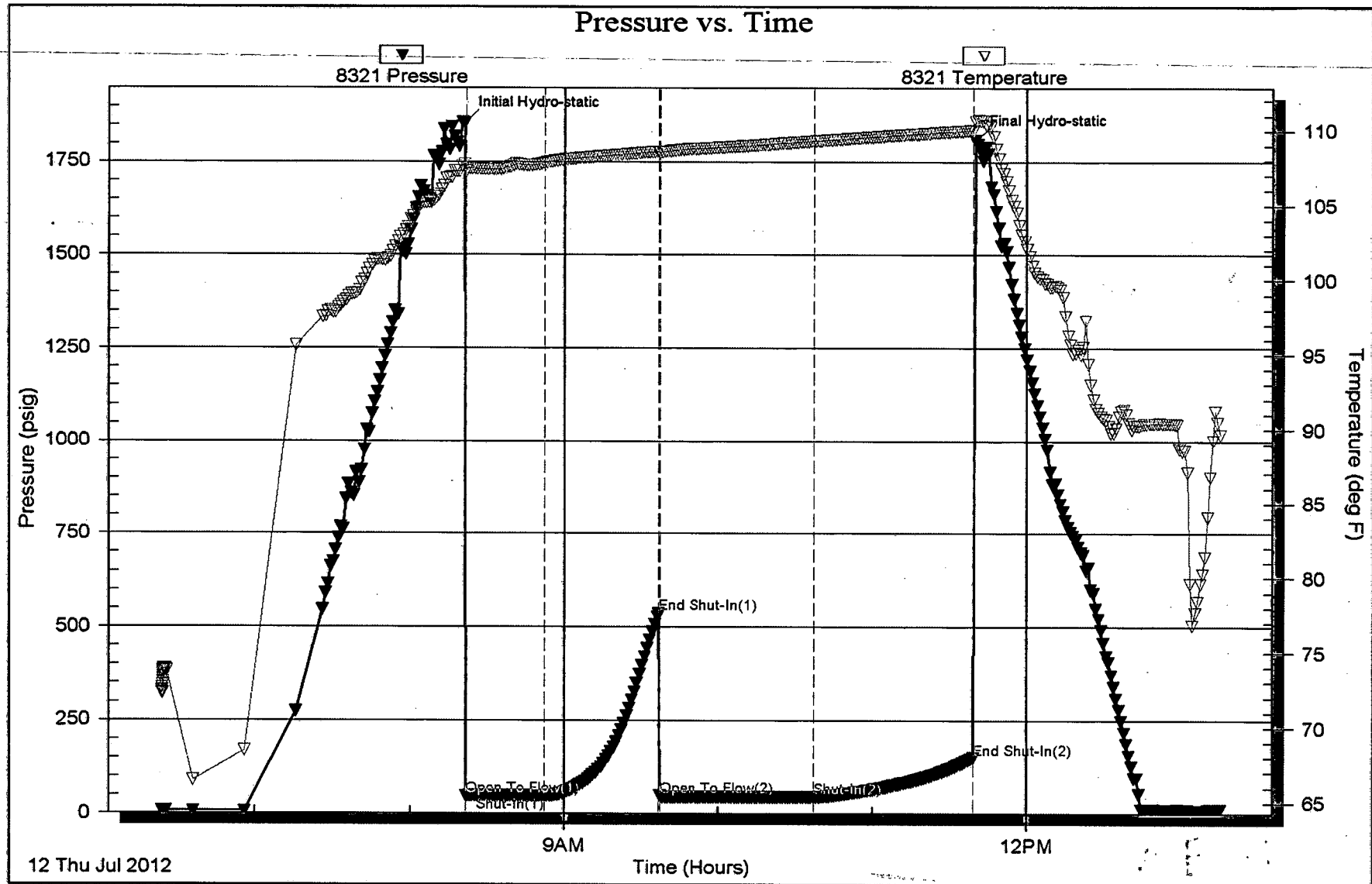
**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 10.00        | OCM 20%O 80%M | 0.140         |
| 5.00         | Free Oil      | 0.070         |

Total Length: 15.00 ft      Total Volume: 0.210 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

**RECEIVED**  
**OCT 15 2012**  
**KCC WICHITA**



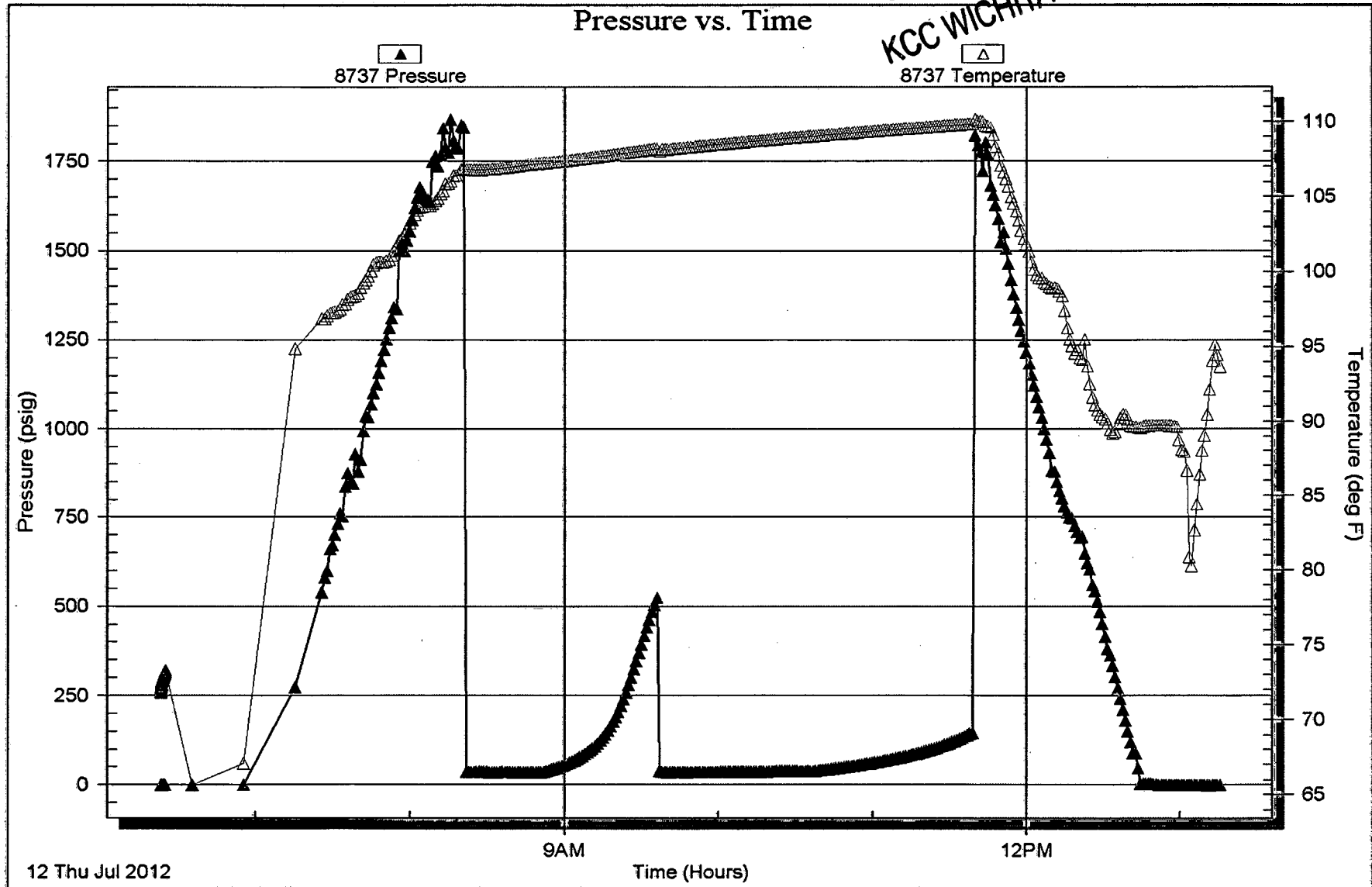
Serial #: 8737

Outside Tomlinson Operating LLC

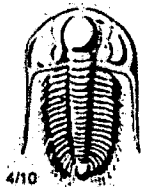
Pfeifer Brothers #1

RECEIVED  
OCT 15 2012  
KCC WICHITA

DST Test Number: 5







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47796

Well Name & No. Pfeiffer Brothers #1 Test No. 1 Date 7-9-12  
 Company Tomlinson Operating LLC Elevation 2241 KB 2233 GL  
 Address 7154 W State ST PMB 302 Boise ID 83714  
 Co. Rep / Geo. Wes Hansen Rig Southwind Rig #20  
 Location: Sec. 15 Twp. 12S Rge. 29 W Co. ELLIS State KS

Interval Tested 3450-3460 Zone Tested Dread  
 Anchor Length 10 Drill Pipe Run 3444 Mud Wt. 88  
 Top Packer Depth 3445 Drill Collars Run 0 Vis 59  
 Bottom Packer Depth 3450 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3460 Chlorides 1300 ppm System LCM 1

Blow Description FF- Weak Blow Built to 1/4 IN  
IS- Dead NO Blow Back  
FF- Dead NO Blow  
ES- Dead NO Blow Back

| Rec       | Feet of                  | %gas | %oil | %water    | %mud      |
|-----------|--------------------------|------|------|-----------|-----------|
| <u>10</u> | <u>MW with oil spots</u> |      |      | <u>55</u> | <u>45</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 10 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

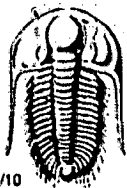
(A) Initial Hydrostatic 1674  Test 1150 T-On Location 2:19  
 (B) First Initial Flow 30  Jars 250 T-Started 4:12  
 (C) First Final Flow 33  Safety Joint 75 T-Open 6:42  
 (D) Initial Shut-In 1107  Circ Sub \_\_\_\_\_ T-Pulled 9:12  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 11:03  
 (F) Second Final Flow 34  Mileage 32 RT 49.60  
 (G) Final Shut-In 1064  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1699  Straddle \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 30  
 Final Shut-In 45

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1524.60  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1524.60

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47797

Well Name & No. Pfeiffer Brothers #1 Test No. 2 Date 7-9-12  
 Company Tomlinson Operating LLC Elevation 2241 KB 2233 GL  
 Address 7154 W STATE ST Pmb 302 Boise ID 83714  
 Co. Rep / Geo. Wes Hansen Rig SOUTHWIND Rig #40  
 Location: Sec. 15 Twp. 12S Rge. 19W Co. ELLIS State KS

Interval Tested 3540-3571 Zone Tested LANSING B  
 Anchor Length 31 Drill Pipe Run 3537 Mud Wt. 9.0  
 Top Packer Depth 3535 Drill Collars Run 0 Vis 53  
 Bottom Packer Depth 3540 Wt. Pipe Run 0 WL 40.4  
 Total Depth 3571 Chlorides 1300 ppm System LCM 1

Blow Description FF- Fair Blow Built TO BIN  
IS- Dead NO Blow Back  
FF- Good Blow BOB IN 22 min.  
IS- Dead NO Blow Back

| Rec        | Feet of                | %gas      | %oil      | %water    | %mud     |
|------------|------------------------|-----------|-----------|-----------|----------|
| <u>107</u> | <u>MCGO</u>            | <u>15</u> | <u>55</u> | <u>30</u> | <u>0</u> |
| Rec        | Feet of <u>184-GIP</u> | %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     |

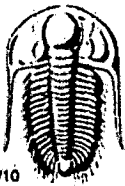
Rec Total 107 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1735  Test 1150 T-On Location 22:19  
 (B) First Initial Flow 28  Jars 250 T-Started 22:59  
 (C) First Final Flow 31  Safety Joint 75 T-Open 00:32  
 (D) Initial Shut-In 1117  Circ Sub T-Pulled 3:47  
 (E) Second Initial Flow 35  Hourly Standby T-Out 40:12  
 (F) Second Final Flow 46  Mileage 49.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1108  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1728  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Ruined Packer \_\_\_\_\_  
 Final Flow 400  Extra Copies \_\_\_\_\_  
 Final Shut-In 400  Extra Recorder \_\_\_\_\_  
 Sub Total 0 **RECEIVED**  
 Total 1524.60 **OCT 15 2012**  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1524.60 **KCC WICHITA**

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47798

Well Name & No. Pfeiffer Brothers #1 Test No. 3 Date 7-10-12  
 Company Tomlinson Operating LLC Elevation 2241 KB 2233 GL  
 Address 7154 W STATE ST PMB 302 Boise ID 83714  
 Co. Rep / Geo. Wes Hansen Rig SOUTH WIND R'g #40  
 Location: Sec. 15 Twp. 12S Rge. 19W Co. ELLIS State KS

Interval Tested 3573-3608 Zone Tested LANSING C-D-E  
 Anchor Length 35 Drill Pipe Run 3569 Mud Wt. 9.0  
 Top Packer Depth 3568 Drill Collars Run 0 Vis 5.0  
 Bottom Packer Depth 3573 Wt. Pipe Run 0 WL 6.8  
 Total Depth 3608 Chlorides 1500 ppm System LCM 1

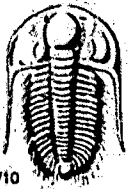
Blow Description FF Fair Blow BUILT TO 9 3/4 IN  
FF-Dead NO Blow Back  
FF GOOD Blow BOB IN 15 1/4 min  
FF-Dead NO Blow Back

| Rec       | Feet of          | %gas      | %oil      | %water    | %mud |
|-----------|------------------|-----------|-----------|-----------|------|
| <u>2</u>  | <u>6MCO</u>      | <u>10</u> | <u>70</u> | <u>20</u> |      |
| <u>15</u> | <u>CASSY OIL</u> | <u>10</u> | <u>90</u> |           |      |
|           | <u>387-COIP</u>  |           |           |           |      |
|           |                  |           |           |           |      |
|           |                  |           |           |           |      |

Rec Total 77 BHT 109 Gravity 27 API RW @      °F Chlorides      ppm

|                                     |  |  |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1761</u> | <input checked="" type="checkbox"/> Test <u>1150</u>       | T-On Location <u>15:52</u>                   |
| (B) First Initial Flow <u>27</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>        | T-Started <u>16:00</u>                       |
| (C) First Final Flow <u>32</u>      | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>18:04</u>                          |
| (D) Initial Shut-In <u>893</u>      | <input type="checkbox"/> Circ Sub                          | T-Pulled <u>21:19</u>                        |
| (E) Second Initial Flow <u>53</u>   | <input type="checkbox"/> Hourly Standby                    | T-Out <u>23:07</u>                           |
| (F) Second Final Flow <u>50</u>     | <input checked="" type="checkbox"/> Mileage <u>49.60</u>   | Comments                                     |
| (G) Final Shut-In <u>871</u>        | <input type="checkbox"/> Sampler                           |  |
| (H) Final Hydrostatic <u>1745</u>   | <input type="checkbox"/> Straddle                          | <input type="checkbox"/> Ruined Shale Packer |
|                                     | <input type="checkbox"/> Shale Packer                      | <input type="checkbox"/> Ruined Packer       |
| Initial Open <u>30</u>              | <input type="checkbox"/> Extra Packer                      | <input type="checkbox"/> Extra Copies        |
| Initial Shut-In <u>45</u>           | <input type="checkbox"/> Extra Recorder                    | Sub Total <u>0</u>                           |
| Final Flow <u>6.0</u>               | <input type="checkbox"/> Day Standby                       | Total <u>1524.60</u>                         |
| Final Shut-In <u>6.0</u>            | <input type="checkbox"/> Accessibility                     | MP/DST Disc't                                |
|                                     | Sub Total <u>1524.60</u>                                   |  |

Approved By \_\_\_\_\_ Our Representative Jeff Brown  
 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.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47799

Well Name & No. Proffer Brothers #1 Test No. 4 Date 7-11-12  
 Company Tomlinson Operating LLC Elevation 2241 KB 2233 GL  
 Address 7154 W STATE ST PMB 302 Boise ID 83714  
 Co. Rep / Geo. Wes Hansen Rig Southwind Rig #40  
 Location: Sec. 15 Twp. 12S Rge. 19W Co. PELLIS State KS

Interval Tested 36008 - 36018 Zone Tested LANSING - F  
 Anchor Length 10 Drill Pipe Run 3599 Mud Wt. 9.0  
 Top Packer Depth 36003 Drill Collars Run 0 Vis 5.0  
 Bottom Packer Depth 36008 Wt. Pipe Run 0 WL 6.4  
 Total Depth 36018 Chlorides 1300 ppm System LCM 1

Blow Description Off-weak surface Blow then died out  
1st - Dead No Blow Back  
Off-GOOD BLOW BOB IN 22 1/2 min  
1st - Dead NO BLOW BACK

| Rec       | Feet of          | %gas     | %oil      | %water | %mud      |
|-----------|------------------|----------|-----------|--------|-----------|
| <u>15</u> | <u>HOAM</u>      |          | <u>25</u> |        | <u>25</u> |
| <u>54</u> | <u>Gassy oil</u> | <u>5</u> | <u>95</u> |        |           |
|           | <u>403 - GIP</u> |          |           |        |           |
|           |                  |          |           |        |           |
|           |                  |          |           |        |           |

Rec Total 69 BHT 109 Gravity 27 API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 1810  Test 1150 T-On Location 5:27  
 (B) First Initial Flow 210  Jars 250 T-Started 6:20  
 (C) First Final Flow 29  Safety Joint 75 T-Open 8:08  
 (D) Initial Shut-In 852  Circ Sub T-Pulled 11:23  
 (E) Second Initial Flow 35  Hourly Standby T-Out 13:34  
 (F) Second Final Flow 43  Mileage 49.60 Comments  
 (G) Final Shut-In 841  Sampler  
 (H) Final Hydrostatic 1770  Straddle  
 Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 600  
 Final Shut-In 600  
 Sub Total 1524.60  
 Total 1524.60  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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.

**RECEIVED**  
**OCT 15 2012**  
**KCC WICHITA**



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 47800

Well Name & No. Pfeifer Brothers #1 Test No. 5 Date 7-12-12  
 Company Tomlinson Operating LLC Elevation 2241 KB 2233 GL  
 Address 7154 W State St PMB 302 Boise ID 83714  
 Co. Rep / Geo. Wes Hansen Rig Southwind Rig #10  
 Location: Sec. 15 Twp. 12S Rge. 19W Co. ELLIS State KS

Interval Tested 31080-37360 Zone Tested LANSING I-S-K  
 Anchor Length 560 Drill Pipe Run 31060 Mud Wt. 9.2  
 Top Packer Depth 31075 Drill Collars Run 0 Vis 49  
 Bottom Packer Depth 31080 Wt. Pipe Run 0 WL 7.2  
 Total Depth 37360 Chlorides 1500 ppm System LCM 2

Blow Description Off-Weak Blow Built To 1 IN  
1st-Dead No Blow Back  
Off-Weak Surface Blow Built To 1/8 IN  
1st-Dead No Blow Back

| Rec       | Feet of         | %gas | %oil        | %water | %mud       |
|-----------|-----------------|------|-------------|--------|------------|
| <u>10</u> | <u>OCM</u>      |      | <u>20%</u>  |        | <u>80%</u> |
| <u>5</u>  | <u>Free oil</u> |      | <u>100%</u> |        |            |
|           |                 |      |             |        |            |
|           |                 |      |             |        |            |
|           |                 |      |             |        |            |

Rec Total 15 BHT 110 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1854  Test 1150 T-On Location 5:48  
 (B) First Initial Flow 47  Jars 250 T-Started 6:23  
 (C) First Final Flow 48  Safety Joint 75 T-Open 8:22  
 (D) Initial Shut-In 5360  Circ Sub \_\_\_\_\_ T-Pulled 11:37  
 (E) Second Initial Flow 48  Hourly Standby \_\_\_\_\_ T-Out 13:16  
 (F) Second Final Flow 45  Mileage 49.60 49.60 Comments Loaded Tools at  
 (G) Final Shut-In 150  Sampler \_\_\_\_\_ 4:51 Am on 7-13-12  
 (H) Final Hydrostatic 1807  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1574.20  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1574.20

Approved By \_\_\_\_\_ Our Representative Jeff Brown  
 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.