

KANSAS CORPORATION COMMISSION 1097558
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34661
Name: Pfeifer Explorations, LLC
Address 1: 309 W. 40TH
Address 2: _____
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Jacob Pfeifer
Phone: (785) 625-7258
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Roger Moses
Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW

Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

| | | |
|-----------------------------------|-------------------|---|
| <u>09/25/2012</u> | <u>09/30/2012</u> | <u>09/30/2012</u> |
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |

API No. 15 - 15-051-26358-00-00

Spot Description: _____
SW NE SW SW Sec. 27 Twp. 14 S. R. 16 East West
825 Feet from North / South Line of Section
865 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Ellis

Lease Name: Rohleder A Well #: 27-1

Field Name: _____

Producing Formation: NA

Elevation: Ground: 1860 Kelly Bushing: 1870

Total Depth: 3455 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 976 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 4800 ppm Fluid volume: 480 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

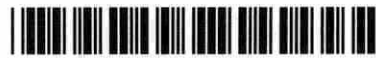
AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garrison Date: 10/30/2012



1097558

Operator Name: Pfeifer Explorations, LLC Lease Name: Rohleder A Well #: 27-1
 Sec. 27 Twp. 14 S. R. 16 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 Wire-line Logs surveyed. Attach final geological well site report.

| Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: <small>Micro Log Compensated Density/Neutron Log Dual Induction Log</small> | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>974</td> <td>896</td> </tr> <tr> <td>Heebner</td> <td>3072</td> <td>1202</td> </tr> <tr> <td>Lansing</td> <td>3121</td> <td>1251</td> </tr> <tr> <td>Base KC</td> <td>3352</td> <td>1482</td> </tr> <tr> <td>Arbuckle</td> <td>3381</td> <td>1511</td> </tr> </tbody> </table> | Name | Top | Datum | Anhydrite | 974 | 896 | Heebner | 3072 | 1202 | Lansing | 3121 | 1251 | Base KC | 3352 | 1482 | Arbuckle | 3381 | 1511 |
|---|---|-------|-----|-------|-----------|-----|-----|---------|------|------|---------|------|------|---------|------|------|----------|------|------|
| Name | Top | Datum | | | | | | | | | | | | | | | | | |
| Anhydrite | 974 | 896 | | | | | | | | | | | | | | | | | |
| Heebner | 3072 | 1202 | | | | | | | | | | | | | | | | | |
| Lansing | 3121 | 1251 | | | | | | | | | | | | | | | | | |
| Base KC | 3352 | 1482 | | | | | | | | | | | | | | | | | |
| Arbuckle | 3381 | 1511 | | | | | | | | | | | | | | | | | |

| 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 | 10.75 | 8.625 | 23 | 976 | Common | 450 | 2% Gel 3% Gel |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---------------------------------------|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| ___ Perforate | | | | |
| ___ Protect Casing | - | | | |
| ___ Plug Back TD | | | | |
| ___ Plug Off Zone | - | | | |

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

| | | | | |
|---|-----------|---|-------------|---|
| TUBING RECORD: | Size: | Set At: | Packer At: | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. | | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

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

ALLIED OIL & GAS SERVICES, LLC 053566

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

SERVICE POINT: Russell
Lawrence

| DATE | SEC | TWP | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
|---------------------------|--------|--------|-------------------|------------|-------------|-----------|------------|
| 9-30-12 | 27 | 14S | 16W | | | 9:30 | 10:19 AM |
| LEASE | Holder | WELL # | LOCATION | | | COUNTY | STATE |
| OLD OR (NEW) (Circle one) | | 27-1 | Walker 3/2 S W 15 | | | ELLIS | KS |

CONTRACTOR Royal Drilling Reg #1 OWNER _____
 TYPE OF JOB Rotary Plug
 HOLE SIZE 12 1/2 TD _____
 CASING SIZE 4 1/2 DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 3425'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 47
 PERFS. _____
 DISPLACEMENT Freshwater
 EQUIPMENT _____

| CEMENT | AMOUNT ORDERED | UNIT PRICE | TOTAL |
|----------|----------------|------------|---------|
| COMMON | 126 | @ 17.80 | 2255.40 |
| POZMIX | 84 | @ 9.35 | 785.40 |
| GEL | 7 | @ 23.40 | 163.80 |
| CHLORIDE | | @ | |
| ASC | | @ | |
| FO-SEAL | 53# | @ 2.97 | 157.41 |
| HANDLING | 225.2 | @ 2.48 | 558.40 |
| MILEAGE | 9.4 x 2.5 | @ 2.60 | 611.00 |
| TOTAL | | | 4531.50 |

PUMP TRUCK # 409 CEMENTER Dwight Chambers HELPER Karin Knapp
 BULK TRUCK # U81-000 DRIVER Tony Pfannkuchel
 BULK TRUCK # _____ DRIVER _____

REMARKS:
Bill Hale work Rtg. man
1 3425 - 2546
2 1020 - 90 465
3 420 - 90 465
4 40 - 10 465
5 RH - 30 465
6 RH - 15 465
plug down 10:15 pm

| SERVICE | AMOUNT | TOTAL |
|-------------------|--------|---------|
| DEPTH OF JOB | 3425' | |
| PUMP TRUCK CHARGE | | 2600.47 |
| EXTRA FOOTAGE | @ | |
| MILEAGE | @ | |
| MANIFOLD | @ | |
| LVN RT 50 | @ 7.90 | 395.00 |
| LVN RT 50 | @ 4.40 | 220.00 |
| TOTAL 3295.47 | | |

CHARGE TO: Pfeifer Exploration S
 STREET _____
 CITY _____ STATE _____ ZIP _____

| PLUG & FLOAT EQUIPMENT | AMOUNT | TOTAL |
|------------------------|--------|--------|
| Wood Plug | @ | 107.64 |
| TOTAL 107.64 | | |

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

PRINTED NAME X Doug Budig
 SIGNATURE X Doug Budig
Thank You!!

SALES TAX (If Any) 494.21
 TOTAL CHARGES \$ 7844.61
 DISCOUNT 1658.95 IF PAID IN 30 DAYS
\$ 6185.66

*New Customer
 first order 498*

QUALITY WELL SERVICE, INC.

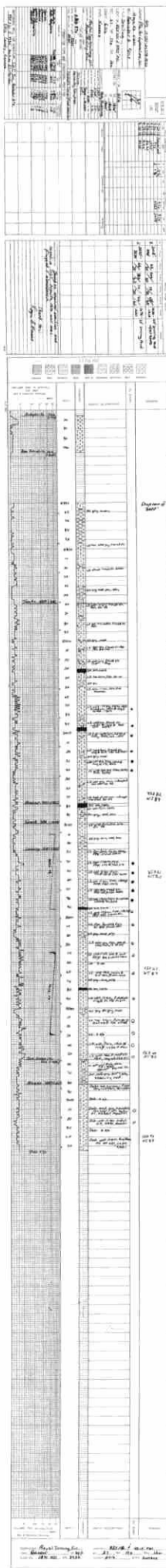
5682

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410
Office / Fax 620-672-3663

Rich's Cell 620-727-3400
Brady's Cell 620-727-6964

| | | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|------|------------|------|----|--|-----|--------|--|-----------|----|-------------|-------------------------|--------|--|--|
| Date | 9/10/00 | Sec. | 77 | Twp. | 14 | Range | 16 | County | Butte | State | Ks | On Location | | Finish | | |
| Lease | 1/1/00 | | Well No. | 771 | | Location 1/2 mile South to Morgan Rd 1 W | | | | | | | | | | |
| Contractor | K. J. ... | | | | | | | | Owner | J. S. ... | | | | | | |
| Type Job | | | | | | | | | To Quality Well Service, Inc. 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 | 17 1/2 | | T.D. | | | | | | | | | | | | | |
| Csg. | 17 1/2 | | Depth | 976 | | Charge To | | | | | | | | | | |
| Tbg. Size | | | Depth | | | | | | | | | | | | | |
| Tool | | | Depth | | | | | | | | | | | | | |
| Cement Left in Csg. | | | Shoe Joint | | | | | | | | | | | | | |
| Mees Line | | | Displace | 60.6 | | Cement Amount Ordered | 4.1 | | | | | | | | | |
| EQUIPMENT | | | | | | | | | | | | | 2.00 | | | |
| Pumptrk | 6 | | No. | | | Common | 450 | | | | | | | | | |
| Bulktrk | 7 | | No. | | | Poz. Mix | | | | | | | | | | |
| Bulktrk | | | No. | | | Gel. | 8 | | | | | | | | | |
| Pickup | | | No. | | | Calcium | 16 | | | | | | | | | |
| JOB SERVICES & REMARKS | | | | | | | | | | | | | Hulls | | | |
| Rat Hole | | | | | | | | | | | | | Salt | | | |
| Mouse Hole | | | | | | | | | | | | | Flowseal | | | |
| Centralizers | | | | | | | | | | | | | Kof-Seal | | | |
| Baskets | | | | | | | | | | | | | Mud CLR 48 | | | |
| D/V or Port Collar | | | | | | | | | | | | | CFL-117 or CD110 CAF 38 | | | |
| | | | | | | | | | | | | | Sand | | | |
| | | | | | | | | | | | | | Handling 474 | | | |
| | | | | | | | | | | | | | Mileage 18 | | | |
| | | | | | | | | | | | | | FLOAT EQUIPMENT | | | |
| | | | | | | | | | | | | | Guide Shoe | | | |
| | | | | | | | | | | | | | Centralizer | | | |
| | | | | | | | | | | | | | Baskets | | | |
| | | | | | | | | | | | | | AFU Inserts | | | |
| | | | | | | | | | | | | | Float Shoe | | | |
| | | | | | | | | | | | | | Latch Down | | | |
| | | | | | | | | | | | | | 8 5/8 Rul. Plug | | | |
| | | | | | | | | | | | | | Pumptrk Charge Surface | | | |
| | | | | | | | | | | | | | Mileage 18 | | | |
| | | | | | | | | | | | | | Tax | | | |
| | | | | | | | | | | | | | Discount | | | |
| | | | | | | | | | | | | | Total Charge | | | |
| X Signature | | | | | | | | | | | | | | | | |





DRILL STEM TEST REPORT

Prepared For: **Pfeifer Exploration, LLC**

309 W 40th
Hays, KS 67601

ATTN: Roger Moses

Rohleder #27-1

27-14s-16w Ellis,KS

Start Date: 2012.09.29 @ 06:50:16

End Date: 2012.09.29 @ 12:25:01

Job Ticket #: 47875 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.02 @ 14:36:53



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
 309 W 40th
 Hays, KS 67601
 ATTN: Roger Moses

27-14s-16w Ellis, KS

Rohleder #27-1

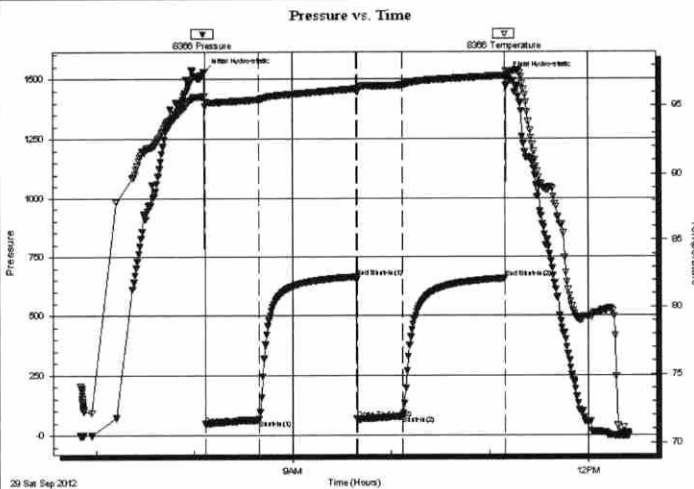
Job Ticket: 47875 **DST#: 1**
 Test Start: 2012.09.29 @ 06:50:16

GENERAL INFORMATION:

Formation: **A-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:06:46
 Time Test Ended: 12:25:01
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Interval: **3108.00 ft (KB) To 3192.00 ft (KB) (TVD)**
 Total Depth: 3192.00 ft (KB) (TVD)
 Reference Elevations: 1866.00 ft (KB)
 1860.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 6.00 ft

Serial #: 8366 Inside
 Press@RunDepth: 79.18 psig @ 3174.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.29 End Date: 2012.09.29 Last Calib.: 2012.09.29
 Start Time: 06:50:18 End Time: 12:25:01 Time On Btm: 2012.09.29 @ 08:06:31
 Time Off Btm: 2012.09.29 @ 11:10:46

TEST COMMENT: IFP-Weak Surface Blow , Dead in 5 Min.
 ISI-Dead
 FFP-Weak Surface Blow , Dead in 5 Min.
 FSI-Dead



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1530.64 | 95.72 | Initial Hydro-static |
| 1 | 46.89 | 94.94 | Open To Flow (1) |
| 33 | 64.94 | 95.47 | Shut-In(1) |
| 93 | 665.61 | 96.26 | End Shut-In(1) |
| 93 | 68.28 | 96.00 | Open To Flow (2) |
| 121 | 79.18 | 96.55 | Shut-In(2) |
| 184 | 658.98 | 97.23 | End Shut-In(2) |
| 185 | 1514.93 | 97.55 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 65.00 | Drilling Mud W/Oil Spots in Tool | 0.91 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
309 W 40th
Hays, KS 67601

ATTN: Roger Moses

27-14s-16w Ellis,KS

Rohleder #27-1

Job Ticket: 47875 **DST#: 1**
Test Start: 2012.09.29 @ 06:50:16

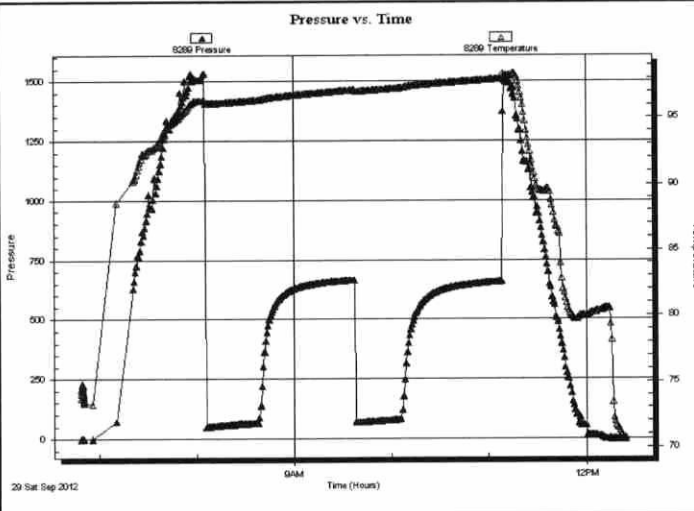
GENERAL INFORMATION:

Formation: **A-D**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:06:46
Time Test Ended: 12:25:01
Test Type: Conventional Bottom Hole (Initial)
Tester: Jason McLemore
Unit No: 54

Interval: **3108.00 ft (KB) To 3192.00 ft (KB) (TVD)**
Reference Elevations: 1866.00 ft (KB)
Total Depth: 3192.00 ft (KB) (TVD) 1860.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 8289 Outside
Press@RunDepth: psig @ 3174.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.09.29 End Date: 2012.09.29 Last Calib.: 2012.09.29
Start Time: 06:48:42 End Time: 12:23:55 Time On Btm:
Time Off Btm:

TEST COMMENT: IFP-Weak Surface Blow , Dead in 5 Min.
ISI-Dead
FFP-Weak Surface Blow , Dead In 5 Min.
FSI-Dead



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

| Recovery | | |
|-------------|----------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 65.00 | Drilling Mud W/Oil Spots in Tool | 0.91 |
| | | |
| | | |
| | | |
| | | |
| | | |

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pfeifer Exploration, LLC

27-14s-16w Ellis,KS

309 W 40th
Hays, KS 67601

Rohleder #27-1

Job Ticket: 47875

DST#: 1

ATTN: Roger Moses

Test Start: 2012.09.29 @ 06:50:16

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 3104.00 ft | Diameter: 3.80 inches | Volume: 43.54 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 38000.00 lb |
| | | <u>Total Volume:</u> | <u>43.54 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial 36000.00 lb |
| Depth to Top Packer: | 3108.00 ft | | | Final 36000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 84.00 ft | | | |
| Tool Length: | 112.00 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 | | | 3081.00 | |
| Shut In Tool | 5.00 | | | 3086.00 | |
| Hydraulic tool | 5.00 | | | 3091.00 | |
| Jars | 5.00 | | | 3096.00 | |
| Safety Joint | 2.00 | | | 3098.00 | |
| Packer | 5.00 | | | 3103.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3108.00 | |
| Stubb | 1.00 | | | 3109.00 | |
| Perforations | 1.00 | | | 3110.00 | |
| Change Over Sub | 1.00 | | | 3111.00 | |
| Blank Spacing | 62.00 | | | 3173.00 | |
| Change Over Sub | 1.00 | | | 3174.00 | |
| Recorder | 0.00 | 8366 | Inside | 3174.00 | |
| Recorder | 0.00 | 8289 | Outside | 3174.00 | |
| Perforations | 15.00 | | | 3189.00 | |
| Bullnose | 3.00 | | | 3192.00 | 84.00 Bottom Packers & Anchor |
| Total Tool Length: | 112.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

27-14s-16w Ellis,KS

309 W 40th
Hays, KS 67601

Rohleder #27-1

Job Ticket: 47875

DST#: 1

ATTN: Roger Moses

Test Start: 2012.09.29 @ 06:50:16

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------------|---------------|
| 65.00 | Drilling Mud W/Oil Spots in Tool | 0.912 |

Total Length: 65.00 ft

Total Volume: 0.912 bbl

Num Fluid Samples: 0

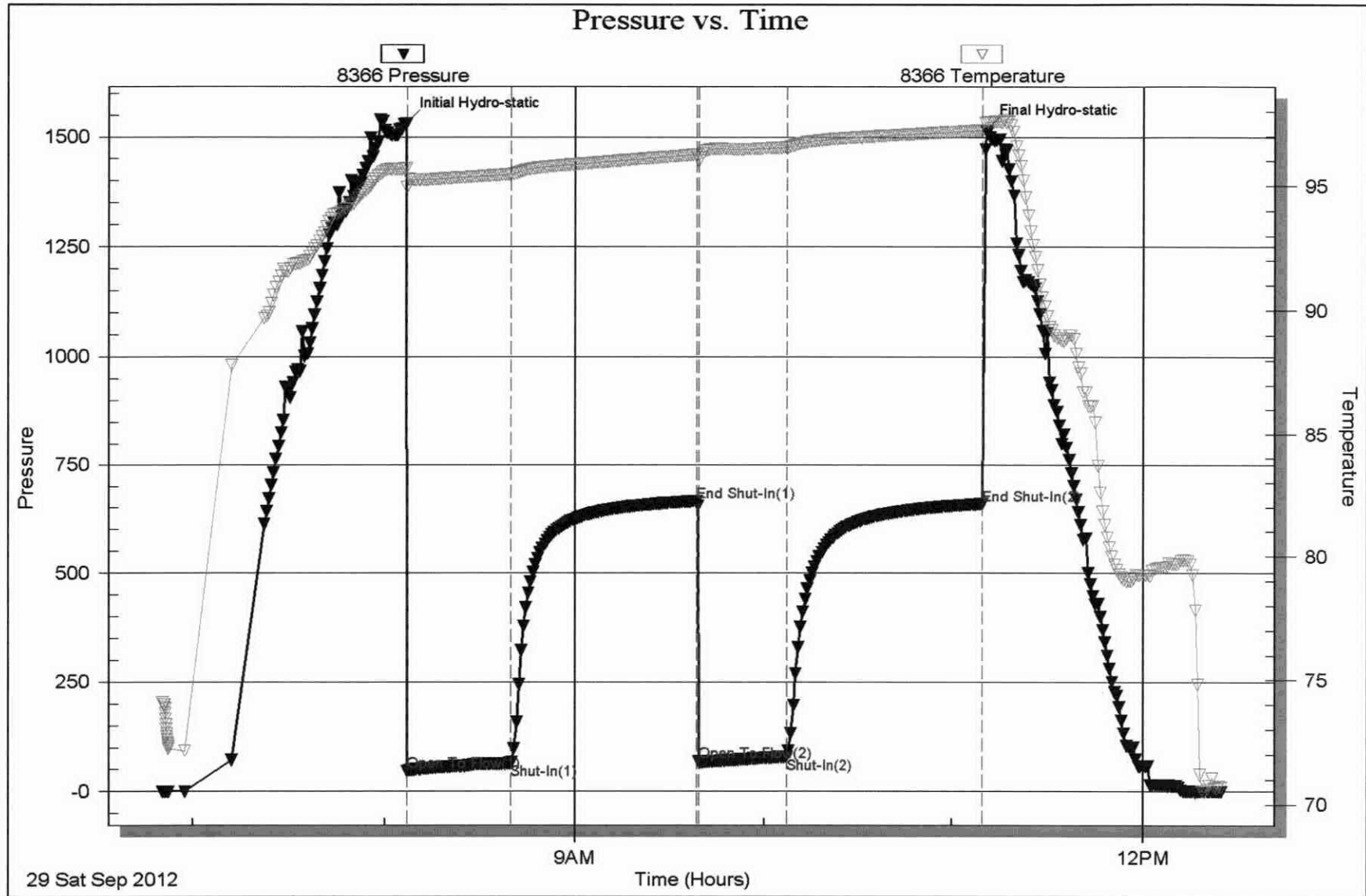
Num Gas Bombs: 0

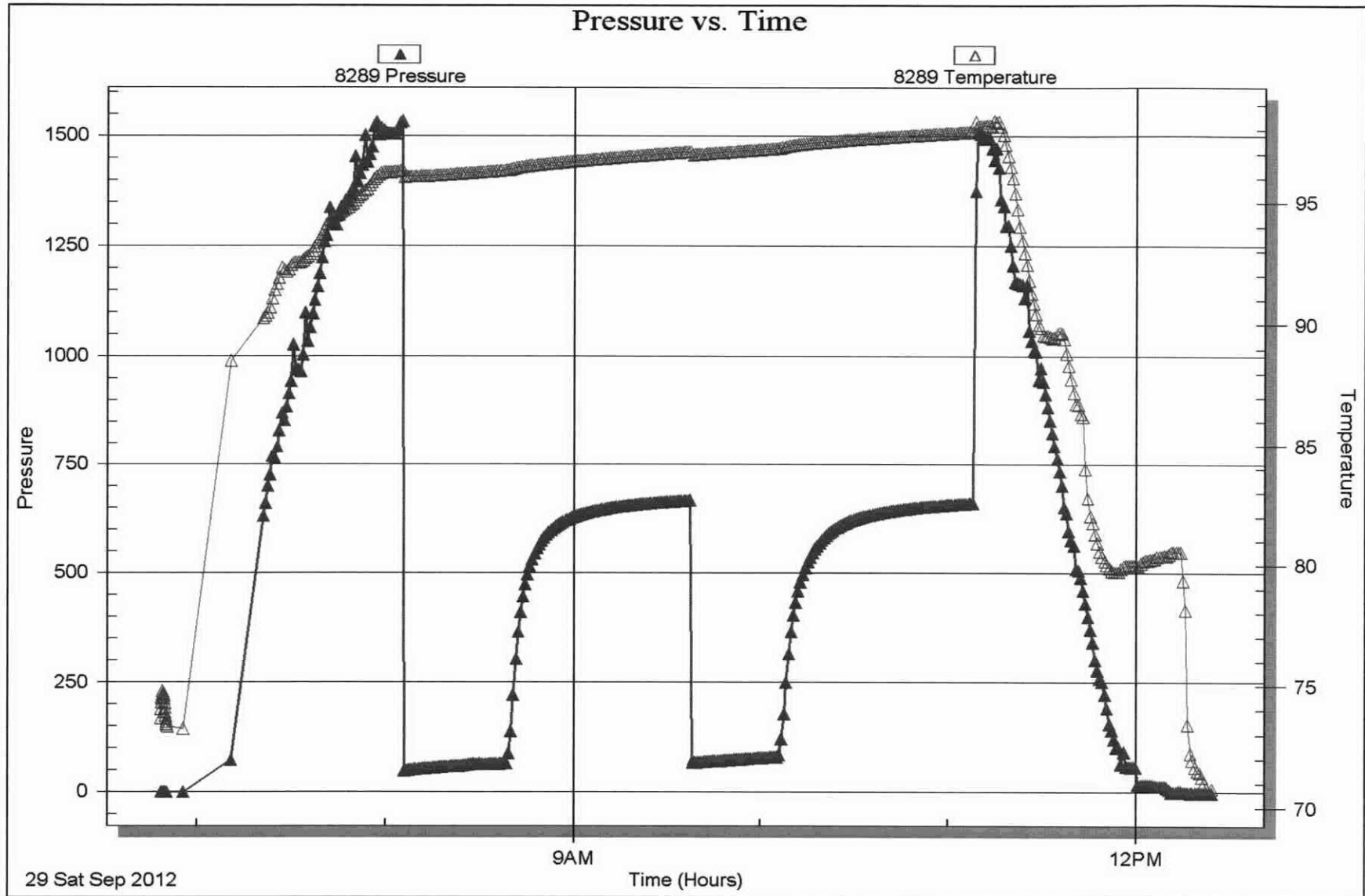
Serial #:

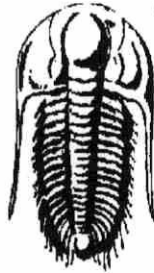
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Pfeifer Exploration, LLC**

309 W 40th
Hays, KS 67601

ATTN: Roger Moses

Rohleder #27-1

27-14s-16w Ellis,KS

Start Date: 2012.09.30 @ 10:26:30

End Date: 2012.09.30 @ 16:21:51

Job Ticket #: 48701 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.10.02 @ 14:33:26

Pfeifer Exploration, LLC
27-14s-16w Ellis,KS
Rohleder #27-1
DST # 2
H-H-J-K
2012.09.30



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
 309 W 40th
 Hays, KS 67601
 ATTN: Roger Moses

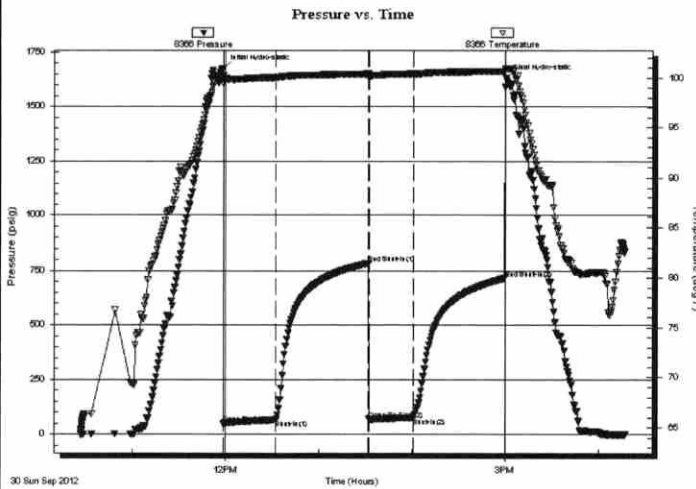
27-14s-16w Ellis, KS
Rohleder #27-1
 Job Ticket: 48701 **DST#: 2**
 Test Start: 2012.09.30 @ 10:26:30

GENERAL INFORMATION:

Formation: **H-I-J-K**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:58:45
 Time Test Ended: 16:21:51
 Test Type: Conventional Straddle (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Interval: **3240.00 ft (KB) To 3329.00 ft (KB) (TVD)**
 Total Depth: 3454.00 ft (KB) (TVD)
 Reference Elevations: 1866.00 ft (KB)
 1860.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 6.00 ft

Serial #: 8366 Inside
 Press@RunDepth: 75.63 psig @ 3305.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.30 End Date: 2012.09.30 Last Calib.: 2012.09.30
 Start Time: 10:26:32 End Time: 16:21:51 Time On Btm: 2012.09.30 @ 11:58:30
 Time Off Btm: 2012.09.30 @ 15:00:30

TEST COMMENT: IFP-Weak Surface Blow , Died in 5 Min.
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1675.79 | 100.22 | Initial Hydro-static |
| 1 | 50.11 | 99.37 | Open To Flow (1) |
| 34 | 65.96 | 100.03 | Shut-In(1) |
| 94 | 784.99 | 100.40 | End Shut-In(1) |
| 94 | 67.66 | 99.97 | Open To Flow (2) |
| 122 | 75.63 | 100.38 | Shut-In(2) |
| 182 | 716.34 | 100.66 | End Shut-In(2) |
| 182 | 1630.10 | 100.92 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 10.00 | Drilling Mud | 0.14 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
 309 W 40th
 Hays, KS 67601
 ATTN: Roger Moses

27-14s-16w Ellis,KS

Rohleder #27-1

Job Ticket: 48701

DST#: 2

Test Start: 2012.09.30 @ 10:26:30

GENERAL INFORMATION:

Formation: **H-I-J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:58:45

Time Test Ended: 16:21:51

Test Type: Conventional Straddle (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: **3240.00 ft (KB) To 3329.00 ft (KB) (TVD)**

Reference Elevations: 1866.00 ft (KB)

Total Depth: 3454.00 ft (KB) (TVD)

1860.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 6.00 ft

Serial #: 8789 Outside

Press@RunDepth: psig @ 3305.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.09.30

End Date: 2012.09.30

Last Calib.: 2012.09.30

Start Time: 10:24:14

End Time: 16:15:42

Time On Btm:

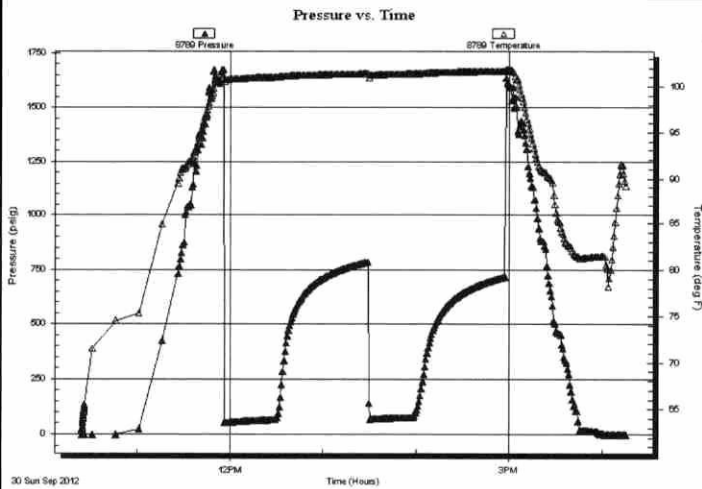
Time Off Btm:

TEST COMMENT: IFP-Weak Surface Blow, Died in 5 Min.

ISI-Dead

FFP-Dead

FSI-Dead



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 10.00 | Drilling Mud | 0.14 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Pfeifer Exploration, LLC
309 W 40th
Hays, KS 67601
ATTN: Roger Moses

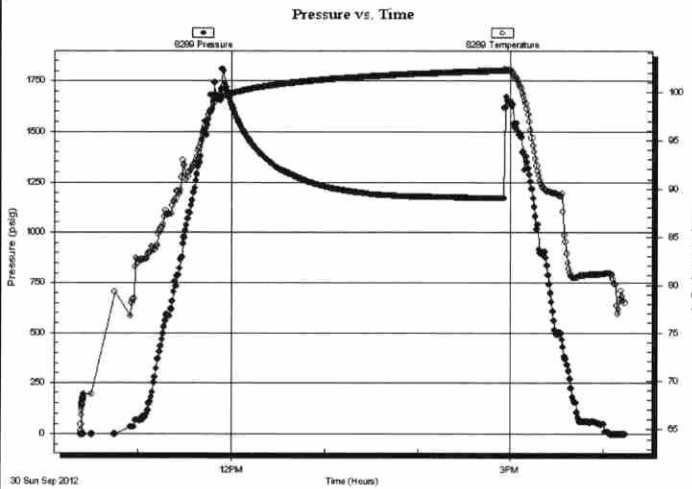
27-14s-16w Ellis,KS
Rohleder #27-1
Job Ticket: 48701 **DST#: 2**
Test Start: 2012.09.30 @ 10:26:30

GENERAL INFORMATION:

Formation: **H-I-J-K**
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 11:58:45 Tester: Jason McLemore
 Time Test Ended: 16:21:51 Unit No: 54
 Interval: **3240.00 ft (KB) To 3329.00 ft (KB) (TVD)** Reference Elevations: 1866.00 ft (KB)
 Total Depth: 3454.00 ft (KB) (TVD) 1860.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 6.00 ft

Serial #: 8289 Below (Straddle)
 Press@RunDepth: psig @ 3332.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.09.30 End Date: 2012.09.30 Last Calib.: 2012.09.30
 Start Time: 10:22:41 End Time: 16:13:54 Time On Btm:
 Time Off Btm:

TEST COMMENT: IFP-Weak Surface Blow , Died in 5 Min.
 ISI-Dead
 FFP-Dead
 FSI-Dead



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 10.00 | Drilling Mud | 0.14 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Pfeifer Exploration, LLC

27-14s-16w Ellis,KS

309 W 40th
Hays, KS 67601

Rohleder #27-1

Job Ticket: 48701

DST#: 2

ATTN: Roger Moses

Test Start: 2012.09.30 @ 10:26:30

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3232.00 ft | Diameter: 3.80 inches | Volume: 45.34 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 40000.00 lb |
| | | | <u>Total Volume: 45.34 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 20.00 ft | | | String Weight: Initial 36000.00 lb |
| Depth to Top Packer: | 3240.00 ft | | | Final 36000.00 lb |
| Depth to Bottom Packer: | 3329.00 ft | | | |
| Interval between Packers: | 89.00 ft | | | |
| Tool Length: | 243.00 ft | | | |
| Number of Packers: | 3 | Diameter: 6.75 inches | | |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|--------------------------------|
| Recorder | 0.00 | 6755 | Fluid | 3212.00 | |
| Change Over Sub | 1.00 | | | 3213.00 | |
| Shut In Tool | 5.00 | | | 3218.00 | |
| Hydraulic tool | 5.00 | | | 3223.00 | |
| Jars | 5.00 | | | 3228.00 | |
| Safety Joint | 2.00 | | | 3230.00 | |
| Packer | 5.00 | | | 3235.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 3240.00 | |
| Stubb | 1.00 | | | 3241.00 | |
| Change Over Sub | 1.00 | | | 3242.00 | |
| Blank Spacing | 62.00 | | | 3304.00 | |
| Change Over Sub | 1.00 | | | 3305.00 | |
| Recorder | 0.00 | 8366 | Inside | 3305.00 | |
| Recorder | 0.00 | 8789 | Outside | 3305.00 | |
| Perforations | 20.00 | | | 3325.00 | |
| Blank Off Sub | 1.00 | | | 3326.00 | |
| Blank Spacing | 3.00 | | | 3329.00 | 89.00 Tool Interval |
| Packer | 1.00 | | | 3330.00 | |
| Perforations | 1.00 | | | 3331.00 | |
| Change Over Sub | 1.00 | | | 3332.00 | |
| Recorder | 0.00 | 8289 | Below | 3332.00 | |
| Blank Spacing | 123.00 | | | 3455.00 | 126.00 Bottom Packers & Anchor |

Total Tool Length: 243.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Pfeifer Exploration, LLC

27-14s-16w Ellis,KS

309 W 40th
Hays, KS 67601

Rohleder #27-1

Job Ticket: 48701

DST#: 2

ATTN: Roger Moses

Test Start: 2012.09.30 @ 10:26:30

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 10.00 | Drilling Mud | 0.140 |

Total Length: 10.00 ft

Total Volume: 0.140 bbl

Num Fluid Samples: 0

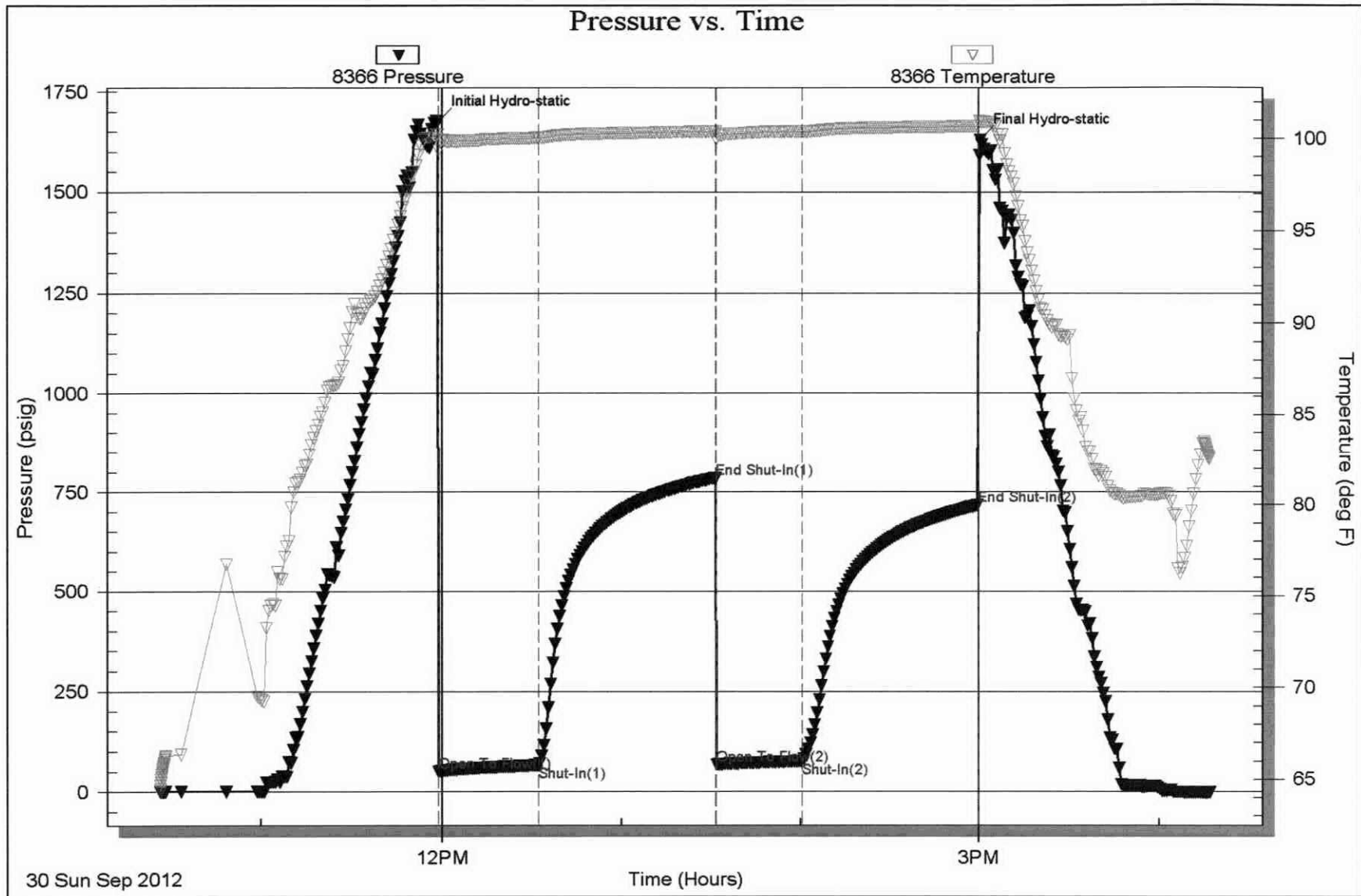
Num Gas Bombs: 0

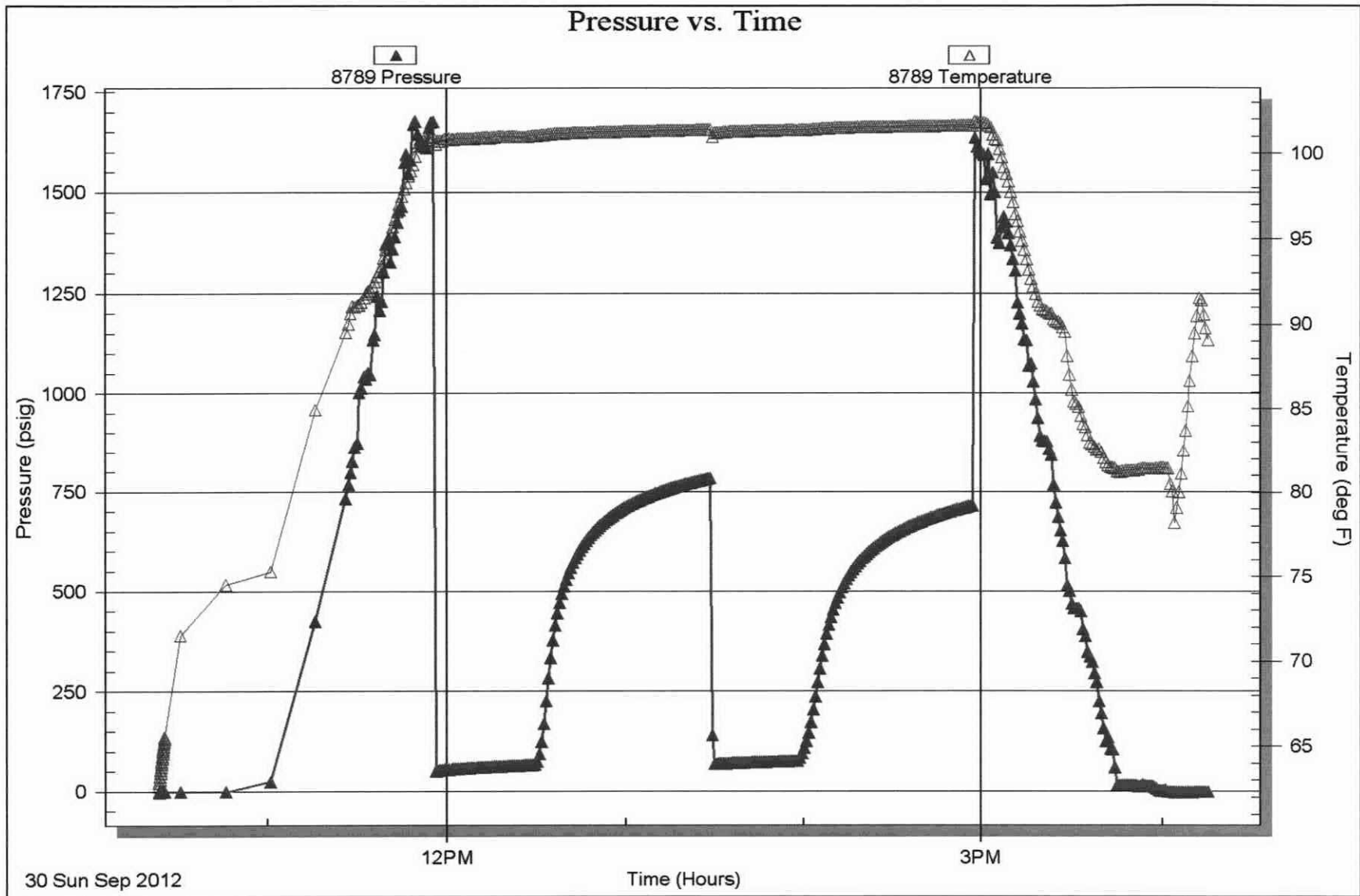
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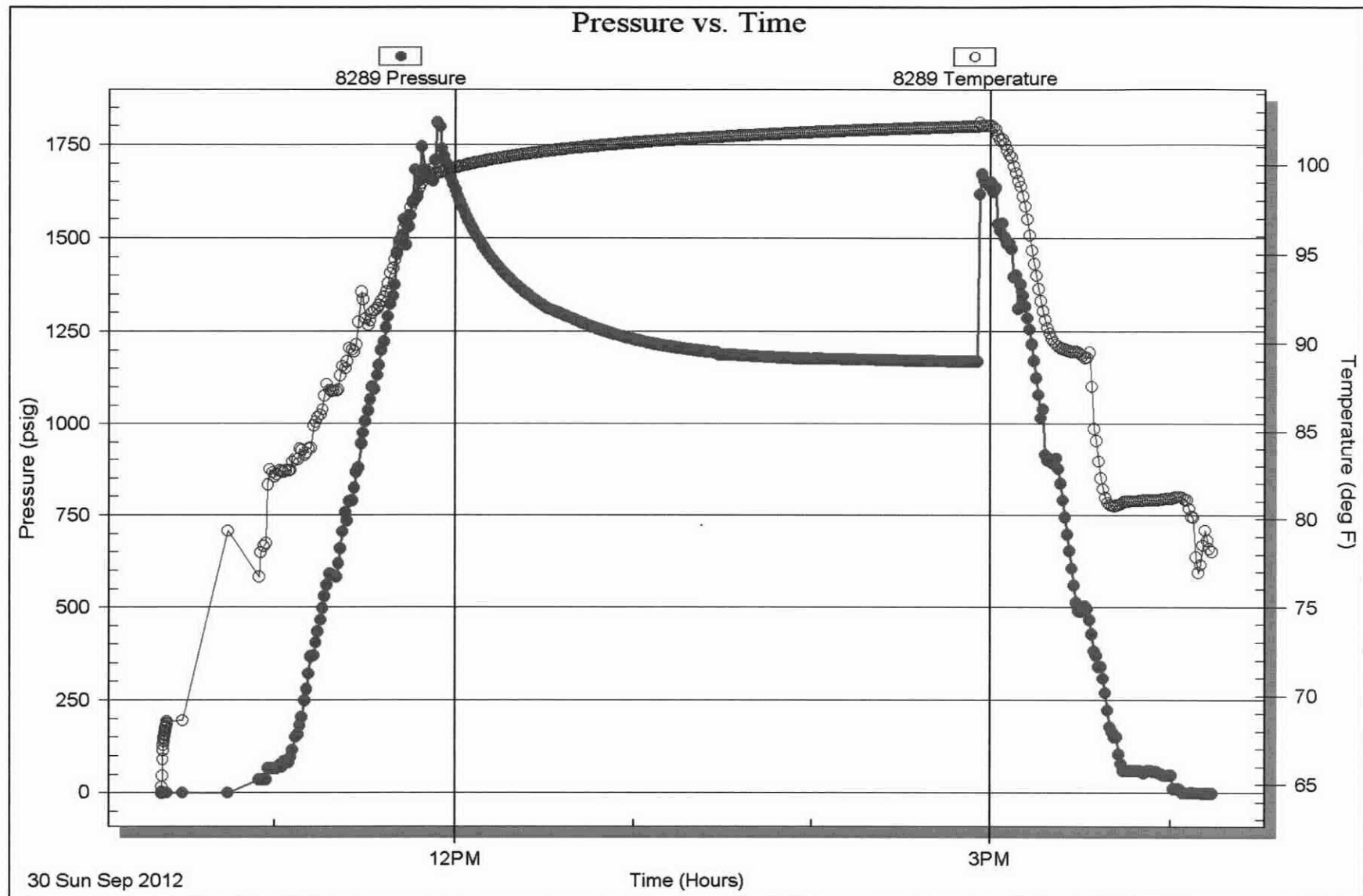
Laboratory Name:

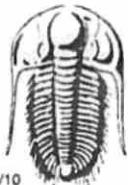
Laboratory Location:

Recovery Comments:









TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47875

Well Name & No. Rohleder #27-1 Test No. 1 Date 9-29-12
 Company Pfeifer Explorations, LLC Elevation 1866 KB 1860 GL
 Address 309 W. 40th, Hays, KS. 67601
 Co. Rep / Geo. Roger Moses Rig Royal Drilling #1
 Location: Sec. 27 Twp. 14s Rge. 16w Co. Ellis State Ks

Interval Tested 3108 - 3192 Zone Tested A-D
 Anchor Length 84' Drill Pipe Run 3109 Mud Wt. 8.6
 Top Packer Depth 3103 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 3108 Wt. Pipe Run 0 WL 7.6
 Total Depth 3192 Chlorides 2800 ppm System LCM 2[#]
 Blow Description IFP - Weak surface Blow, Dead in 5 min
ISI - Dead

FFP - Weak surface Blow, Dead in 5 min.

FSI - Dead

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|---|------|------|--------|------|
| <u>65</u> | <u>Drilling Mud (Oil spots in tool)</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 65 BHT 97° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1531 Test _____ T-On Location 5:35
 (B) First Initial Flow 47 Jars 250 T-Started 6:48
 (C) First Final Flow 65 Safety Joint 75 T-Open 8:04
 (D) Initial Shut-In 666 Circ Sub _____ T-Pulled 11:04
 (E) Second Initial Flow 68 Hourly Standby _____ T-Out 12:23
 (F) Second Final Flow 79 Mileage 35 rt 54.25
 (G) Final Shut-In 659 Sampler _____
 (H) Final Hydrostatic 1515 Straddle _____

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 60 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 60 Accessibility _____
 Sub Total 1529.25

Approved By _____ Our Representative Jason Mc Jensen *Thank You*

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. 48701

Well Name & No. Rohleder #27-1 Test No. 2 Date 9-30-12
 Company Pfeifer Exploration, LLC Elevation 1866 KB 1860 GL
 Address 309 W. 40th, Hays, KS. 67601
 Co. Rep / Geo. Roger Moses Rig Royal Drilling #1
 Location: Sec. 27 Twp. 14s Rge. 16w Co. Ellis State KS

Interval Tested 3240-3329 Zone Tested H-I-J-K
 Anchor Length 89' Drill Pipe Run _____ Mud Wt. 8.6
 Top Packer Depth 3235 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 3240 - straddle @ 3329 Wt. Pipe Run 0 WL 7.6
 Total Depth 3454 Chlorides 2800 ppm System LCM 2nd
 Blow Description IFF - Weak Surface Blow, Died in 5 min.
ISI - Dead
FFP - Dead
FSI - Dead

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|---------------------|------|------|--------|------|
| <u>10'</u> | <u>Drilling Mud</u> | | | | |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

Rec Total 10' BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>1676</u> | <input checked="" type="checkbox"/> Test <u>1150</u> | T-On Location <u>10:08</u> |
| (B) First Initial Flow <u>50</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>10:22</u> |
| (C) First Final Flow <u>66</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>11:55</u> |
| (D) Initial Shut-In <u>785</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>14:55</u> |
| (E) Second Initial Flow <u>68</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>16:14</u> |
| (F) Second Final Flow <u>76</u> | <input checked="" type="checkbox"/> Mileage <u>54.25</u> | Comments _____ |
| (G) Final Shut-In <u>716</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>1630</u> | <input checked="" type="checkbox"/> Straddle <u>600</u> | <input type="checkbox"/> Ruined Shale Packer _____ |
| Initial Open <u>30</u> | <input type="checkbox"/> Shale Packer _____ | <input type="checkbox"/> Ruined Packer _____ |
| Initial Shut-In <u>60</u> | <input type="checkbox"/> Extra Packer _____ | <input type="checkbox"/> Extra Copies _____ |
| Final Flow <u>30</u> | <input type="checkbox"/> Extra Recorder _____ | Sub Total <u>0</u> |
| Final Shut-In <u>60</u> | <input type="checkbox"/> Day Standby _____ | Total _____ |
| | <input type="checkbox"/> Accessibility _____ | MP/DST Disc't _____ |
| | Sub Total <u>2129.25</u> | |

Approved By _____ Our Representative Jaron McLenore

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.

Thank you