



KANSAS CORPORATION COMMISSION 1097104  
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 # 6569  
Name: Carmen Schmitt, Inc.  
Address 1: PO BOX 47  
Address 2: \_\_\_\_\_  
City: GREAT BEND State: KS Zip: 67530 + 0047  
Contact Person: Carmen Schmitt  
Phone: ( 620 ) 793-5100  
CONTRACTOR: License # 4958  
Name: Mallard, J. V., Inc.  
Wellsite Geologist: Derek Patterson  
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 #: \_\_\_\_\_  
08/23/2012    08/30/2012    09/20/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-167-23821-00-00  
Spot Description: \_\_\_\_\_  
SW SE SE NW Sec. 32 Twp. 15 S. R. 12  East  West  
2518 Feet from  North /  South Line of Section  
2300 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Ney Unit Well #: 7  
Field Name: \_\_\_\_\_  
Producing Formation: Kansas City  
Elevation: Ground: 1854 Kelly Bushing: 1859  
Total Depth: 3452 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 572 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1520 Feet  
If Alternate II completion, cement circulated from: 1520  
feet depth to: 0 w/ 200 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 45000 ppm Fluid volume: 1000 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 Garrick Date: 10/23/2012



1097104

Operator Name: Carmen Schmitt, Inc. Lease Name: Ney Unit Well #: 7  
 Sec. 32 Twp. 15 S. R. 12  East  West County: Russell

**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<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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>Dual Compensated Porosity<br>Dual Induction<br>Microresistivity | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br><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>798</td> <td>+1061</td> </tr> <tr> <td>Topeka</td> <td>2661</td> <td>-802</td> </tr> <tr> <td>Heebner</td> <td>2939</td> <td>-1080</td> </tr> <tr> <td>Lansing Kansas City</td> <td>3034</td> <td>-1175</td> </tr> <tr> <td>Base Kansas City</td> <td>3282</td> <td>-1423</td> </tr> <tr> <td>Basal Penn Congl</td> <td>3293</td> <td>-1434</td> </tr> <tr> <td>Precambrian Quartzite</td> <td>3336</td> <td>-1477</td> </tr> </tbody> </table> | Name  | Top | Datum | Anhydrite | 798 | +1061 | Topeka | 2661 | -802 | Heebner | 2939 | -1080 | Lansing Kansas City | 3034 | -1175 | Base Kansas City | 3282 | -1423 | Basal Penn Congl | 3293 | -1434 | Precambrian Quartzite | 3336 | -1477 |
|---|---|-------|-----|-------|-----------|-----|-------|--------|------|------|---------|------|-------|---------------------|------|-------|------------------|------|-------|------------------|------|-------|-----------------------|------|-------|
| Name  | Top   | Datum |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Anhydrite   | 798   | +1061 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Topeka  | 2661  | -802  |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Heebner   | 2939  | -1080 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Lansing Kansas City   | 3034  | -1175 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Base Kansas City  | 3282  | -1423 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Basal Penn Congl  | 3293  | -1434 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |
| Precambrian Quartzite   | 3336  | -1477 |     |       |           |     |       |        |      |      |         |      |       |                     |      |       |                  |      |       |                  |      |       |                       |      |       |

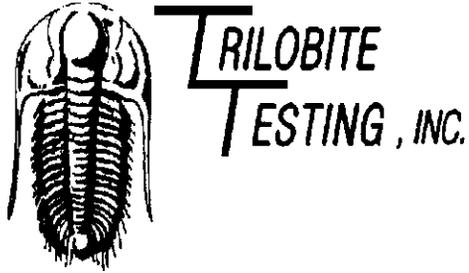
| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used |                   |                           |                   |               |                 |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|-----------------|--------------|----------------------------|
| 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   | 12.25             | 8.625                     | 23                | 572           |                 | 250          | 3% cc, 2% gel              |
| Production  | 7.875             | 5.5                       | 14                | 3437          | Swift EA-2, SMC | 200          |                            |
|   |                   |                           |                   |               |                 |              |                            |

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

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| 2              | 3120'-3126'   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

|  |                    |   |                        |  |
|--|--------------------|---|------------------------|--|
| TUBING RECORD:   | Size: <u>2.375</u> | Set At: <u>3103</u>   | Packer At: <u>3103</u> | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR.<br><u>09/20/2012</u> |                    | Producing Method:<br><input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Capable of injection 9-20-12</u> |                        |  |
| Estimated Production Per 24 Hours                                    | Oil Bbls.          | Gas Mcf   | Water Bbls.            | Gas-Oil Ratio Gravity  |

|   |  |  |
|---|--|--|
| 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>_____<br>_____ |
|---|--|--|



## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend KS 67530-0047

ATTN: Derek Patterson

**Ney Unit # 7**

**32 15s 12w Russell**

Start Date: 2012.08.27 @ 20:00:00

End Date: 2012.08.28 @ 02:30:00

Job Ticket #: 47649                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.28 @ 02:57:09

Carmen Schmitt Inc  
32 15s 12w Russell  
Ney Unit # 7  
DST # 1  
Douglas Sand & LKC "  
2012.08.27



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

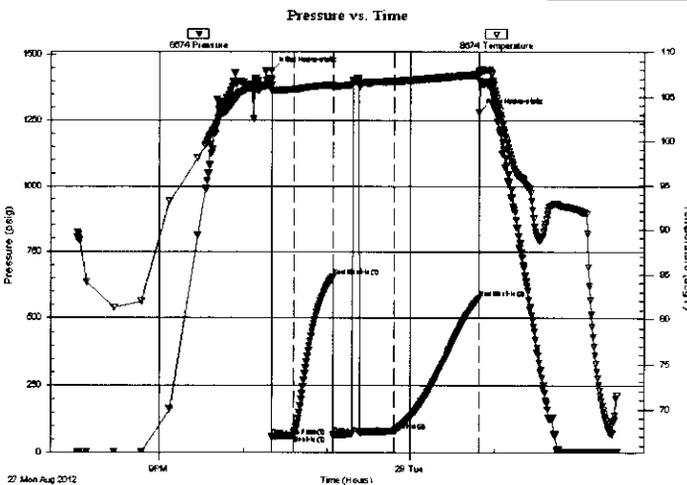
**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

### GENERAL INFORMATION:

Formation: **Douglas Sand & LKC "**  
Deviated: No      Whipstock: 1859.00 ft (KB)  
Time Tool Opened: 22:20:20  
Time Test Ended: 02:30:00  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jim Svaty  
Unit No: 58  
Interval: **2968.00 ft (KB) To 3072.00 ft (KB) (TVD)**  
Reference Elevations: 1859.00 ft (KB)  
Total Depth: 3072.00 ft (KB) (TVD)      1854.00 ft (CF)  
Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8674      Outside**  
Press@RunDepth: 81.13 psig @ 2974.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.27      End Date: 2012.08.28      Last Calib.: 2012.08.28  
Start Time: 20:00:05      End Time: 02:29:20      Time On Btm: 2012.08.27 @ 22:20:00  
Time Off Btm: 2012.08.28 @ 00:49:20

**TEST COMMENT:** 15-IFP- Surface Blow Building to 3in  
30-ISIP- No Blow  
45-FFP- No Blow in 12min Flushed Surface Blow Died in 38min  
60-FSIP- No Blow



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1440.14         | 106.24       | Initial Hydro-static |
| 1           | 59.60           | 105.63       | Open To Flow (1)     |
| 16          | 62.89           | 105.81       | Shut-In(1)           |
| 44          | 658.17          | 106.32       | End Shut-In(1)       |
| 45          | 66.48           | 105.99       | Open To Flow (2)     |
| 89          | 81.13           | 106.73       | Shut-In(2)           |
| 150         | 577.56          | 107.47       | End Shut-In(2)       |
| 150         | 1283.52         | 107.88       | Final Hydro-static   |

### Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 122.00      | Oil Speck Mud | 0.60         |
|             |               |              |
|             |               |              |
|             |               |              |
|             |               |              |

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2727.00 ft | Diameter: 3.80 inches | Volume: 38.25 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose: 60000.00 lb  |
|                           |                    |                       | <u>Total Volume: 39.44 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 29.00 ft           |                       |                                | String Weight: Initial 40000.00 lb |
| Depth to Top Packer:      | 2968.00 ft         |                       |                                | Final 40000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 104.00 ft          |                       |                                |                                    |
| Tool Length:              | 132.00 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        |            |          | 2941.00    |                                     |
| Shut In Tool     | 5.00        |            | Fluid    | 2946.00    |                                     |
| Hydraulic tool   | 5.00        |            |          | 2951.00    |                                     |
| Jars             | 5.00        |            |          | 2956.00    |                                     |
| Safety Joint     | 3.00        |            |          | 2959.00    |                                     |
| Packer           | 5.00        |            | Inside   | 2964.00    | 28.00      Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 2968.00    |                                     |
| Stubb            | 1.00        |            |          | 2969.00    |                                     |
| Perforations     | 4.00        |            |          | 2973.00    |                                     |
| Change Over Sub  | 1.00        |            |          | 2974.00    |                                     |
| Recorder         | 0.00        | 8355       | Inside   | 2974.00    |                                     |
| Recorder         | 0.00        | 8674       | Outside  | 2974.00    |                                     |
| Blank Spacing    | 94.00       |            |          | 3068.00    |                                     |
| Change Over Sub  | 1.00        |            |          | 3069.00    |                                     |
| Bullnose         | 3.00        |            |          | 3072.00    | 104.00      Bottom Packers & Anchor |

**Total Tool Length: 132.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649      **DST#: 1**  
Test Start: 2012.08.27 @ 20:00:00

### 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:   | 42.00 sec/qt         | Cushion Volume:       | bbl  |                 |         |
| Water Loss:  | 9.18 in <sup>3</sup> | Gas Cushion Type:     |      |                 |         |
| Resistivity: | ohm.m                | Gas Cushion Pressure: | psig |                 |         |
| Salinity:    | 3800.00 ppm          |                       |      |                 |         |
| Filter Cake: | inches               |                       |      |                 |         |

### Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 122.00       | Oil Speck Mud | 0.600         |

Total Length: 122.00 ft      Total Volume: 0.600 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Carmen Schmitt Inc

**32 15s 12w Russell**

P.O. Box 47  
Great Bend KS 67530-0047

**Ney Unit # 7**

Job Ticket: 47649

**DST#: 1**

ATTN: Derek Patterson

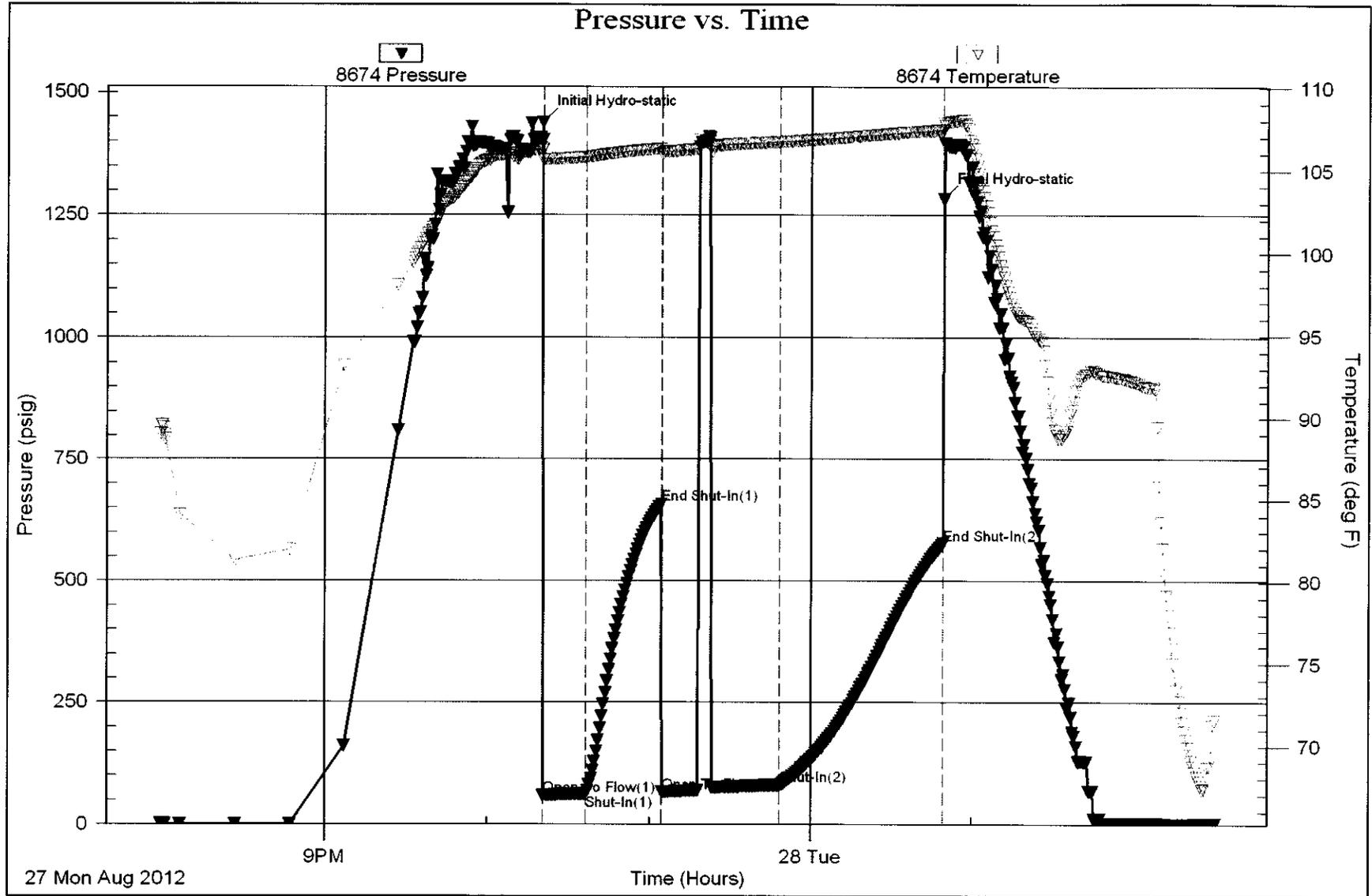
Test Start: 2012.08.27 @ 20:00:00

### Gas Rates Information

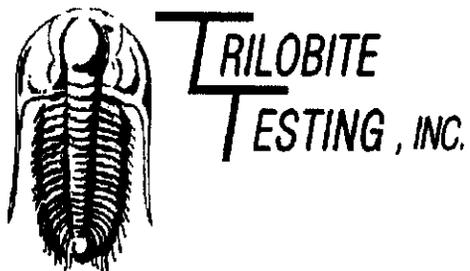
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
|             |              | 0.00           | 0.00            | 0.00             |







## DRILL STEM TEST REPORT

Prepared For: **Carmen Schmitt Inc**

P.O. Box 47  
Great Bend KS 67530-0047

ATTN: Derek Patterson

**Ney Unit # 7**

**32 15s 12w Russell**

Start Date: 2012.08.28 @ 15:22:00

End Date: 2012.08.28 @ 21:29:00

Job Ticket #: 47650                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.28 @ 21:53:28



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

## GENERAL INFORMATION:

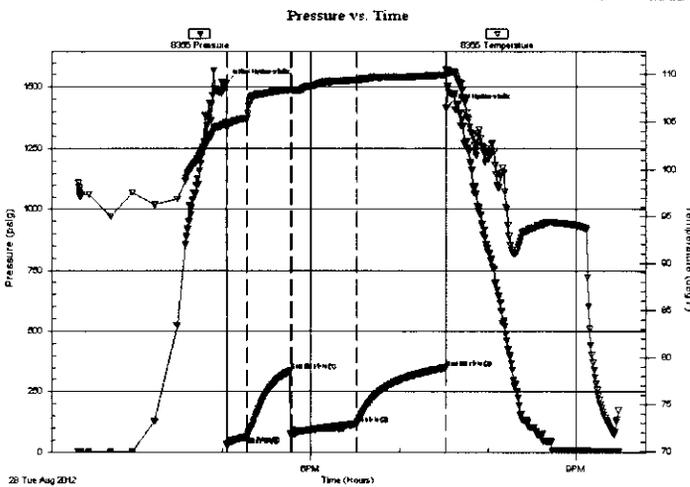
Formation: **LKC " G- J "**  
Deviated: No Whipstock: 1859.00 ft (KB)  
Time Tool Opened: 17:02:45  
Time Test Ended: 21:29:00  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Jim Svaty  
Unit No: 58  
Interval: **3116.00 ft (KB) To 3219.00 ft (KB) (TVD)**  
Total Depth: 3219.00 ft (KB) (TVD)  
Reference Elevations: 1859.00 ft (KB)  
1854.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
KB to GR/CF: 5.00 ft

## Serial #: 8355

Inside

Press@RunDepth: 116.46 psig @ 3121.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.08.28 End Date: 2012.08.28 Last Calib.: 2012.08.28  
Start Time: 15:22:05 End Time: 21:28:29 Time On Btm: 2012.08.28 @ 17:02:30  
Time Off Btm: 2012.08.28 @ 19:31:30

TEST COMMENT: 15-IFP- BOB in 11min  
30-ISIP- No Blow  
45-FFP- BOB in 5 1/2 min  
60-FSIP- Weak Surface Blow Died in 5min



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1515.55         | 104.93       | Initial Hydro-static |
| 1           | 32.82           | 104.36       | Open To Flow (1)     |
| 14          | 62.69           | 105.33       | Shut-In(1)           |
| 44          | 335.68          | 108.37       | End Shut-In(1)       |
| 45          | 75.19           | 108.33       | Open To Flow (2)     |
| 89          | 116.46          | 109.39       | Shut-In(2)           |
| 149         | 350.28          | 109.89       | End Shut-In(2)       |
| 149         | 1417.17         | 110.50       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 205.00      | OCM 12%o 88%m | 1.01         |
| 0.00        | 464 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**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

### Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2852.00 ft | Diameter: 3.80 inches | Volume: 40.01 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 242.00 ft  | Diameter: 2.25 inches | Volume: 1.19 bbl               | Weight to Pull Loose: 50000.00 lb  |
|                           |                    |                       | <u>Total Volume: 41.20 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.00 ft            |                       |                                | String Weight: Initial 42000.00 lb |
| Depth to Top Packer:      | 3116.00 ft         |                       |                                | Final 42000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 103.00 ft          |                       |                                |                                    |
| Tool Length:              | 131.00 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        |            |          | 3089.00    |                                     |
| Shut In Tool     | 5.00        |            | Fluid    | 3094.00    |                                     |
| Hydraulic tool   | 5.00        |            |          | 3099.00    |                                     |
| Jars             | 5.00        |            |          | 3104.00    |                                     |
| Safety Joint     | 3.00        |            |          | 3107.00    |                                     |
| Packer           | 5.00        |            | Inside   | 3112.00    | 28.00      Bottom Of Top Packer     |
| Packer           | 4.00        |            |          | 3116.00    |                                     |
| Stubb            | 1.00        |            |          | 3117.00    |                                     |
| Perforations     | 3.00        |            |          | 3120.00    |                                     |
| Change Over Sub  | 1.00        |            |          | 3121.00    |                                     |
| Recorder         | 0.00        | 8355       | Inside   | 3121.00    |                                     |
| Recorder         | 0.00        | 8674       | Outside  | 3121.00    |                                     |
| Blank Spacing    | 94.00       |            |          | 3215.00    |                                     |
| Change Over Sub  | 1.00        |            |          | 3216.00    |                                     |
| Bullnose         | 3.00        |            |          | 3219.00    | 103.00      Bottom Packers & Anchor |

**Total Tool Length: 131.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

### 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: 45.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.77 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 3800.00 ppm            |                            |                 |         |
| Filter Cake: inches              |                            |                 |         |

### Recovery Information

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 205.00       | OCM 12%o 88%m | 1.008         |
| 0.00         | 464 GIP       | 0.000         |

Total Length: 205.00 ft      Total Volume: 1.008 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



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

# DRILL STEM TEST REPORT

**GAS RATES**

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

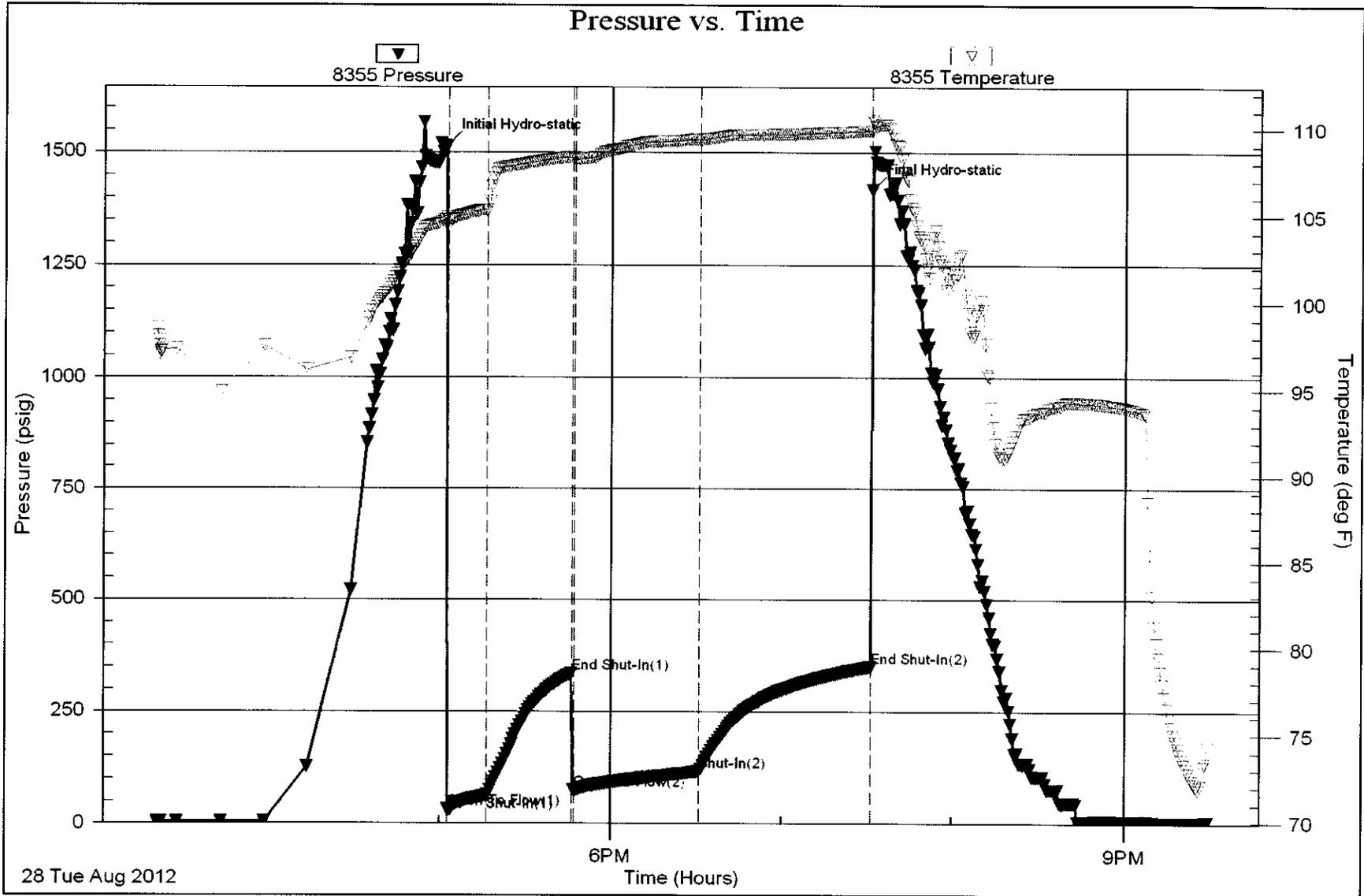
**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650      **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

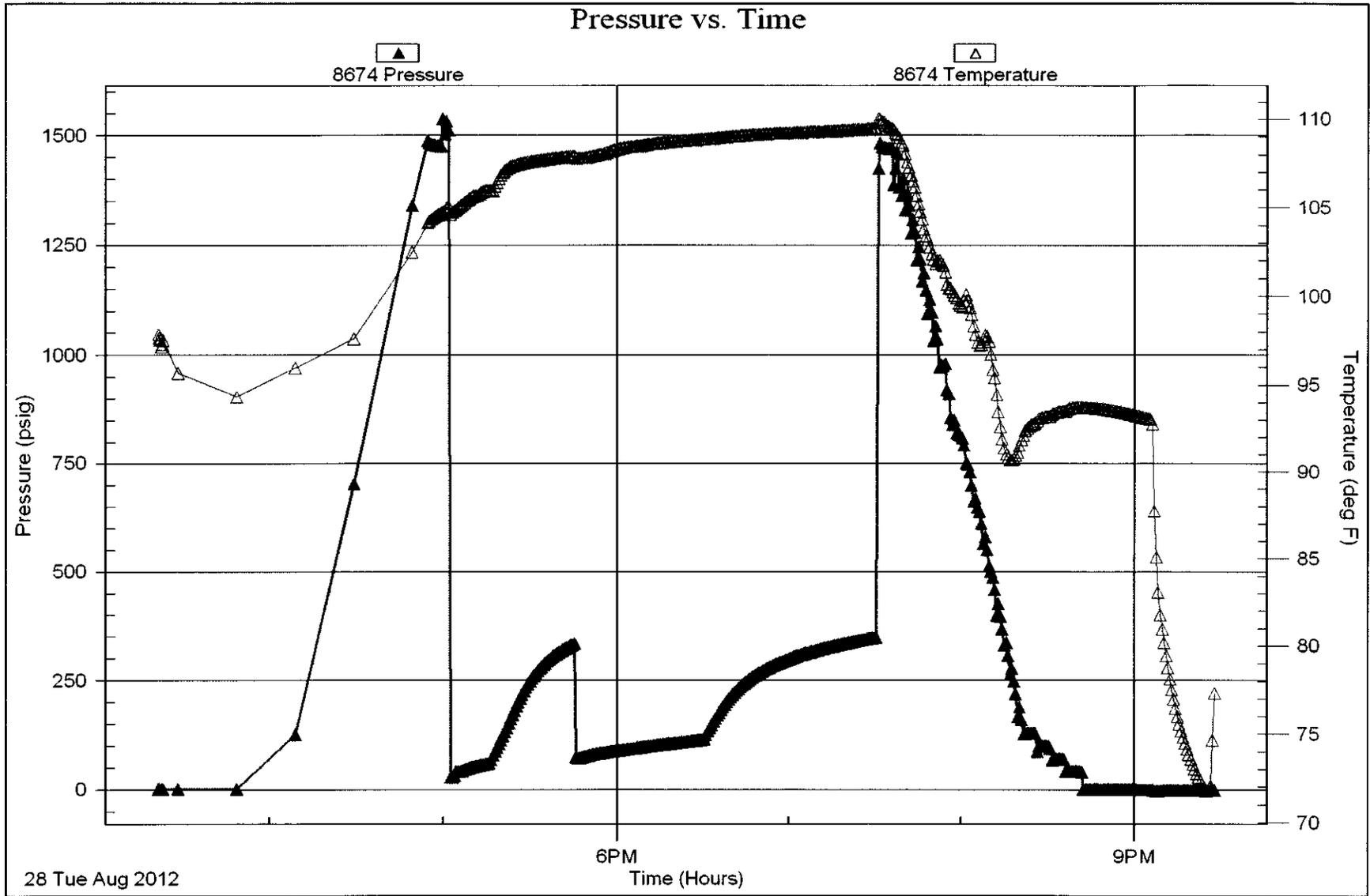
## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|-------------|--------------|----------------|-----------------|------------------|
|             |              | 0.00           | 0.00            | 0.00             |





# ***CARMEN SCHMITT, INC.***

Scale 1:240 (5"=100') Imperial

Well Name: Ney Unit #7  
Location: Sec. 32 - T15S - R12W, Russell County, KS  
Licence Number: API No.: 15-167-23821-0000  
Spud Date: August 23, 2012  
Surface Coordinates: 2518' FNL & 2300' FWL; 3-D Location  
Region: Hall-Gurney  
Drilling Completed: August 29, 2012

## Bottom Hole Coordinates:

Ground Elevation (ft): 1854'      K.B. Elevation (ft): 1859'  
Logged Interval (ft): 2600'      To: 3450'      Total Depth (ft): 3452' (LTD)  
Formation: Lansing, Precambrian Quartzite  
Type of Drilling Fluid: Chemical Gel/Polymer

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Carmen Schmitt, Inc.  
Address: P.O. Box 47  
Great Bend, KS 67530

## GEOLOGIST

Name: Derek W. Patterson  
Company: Valhalla Exploration, LLC  
Address: 133 N. Glendale  
Wichita, KS 67208

## REMARKS

After review of the open hole logs, sample evaluation, and DST results for the Ney Unit #7, it was decided upon by operator to run 5 1/2" production casing to further evaluate the multiple Lansing zones encountered while drilling said well. Should well prove to be non-commercial, it will be completed as a saltwater disposal well in the Precambrian Quartzite.

The well samples were saved, submitted, and will be available for review at the Kansas Geologic Survey's Well Sample Library located in Wichita, KS.

Respectfully Submitted,

Derek W. Patterson

# CARMEN SCHMITT, INC.

## General Information

### Service Companies

Drilling Contractor: Mallard, J V - Rig #1  
 Tool Pusher: Lavon Urban  
 Daylight Driller: Mark Elsen  
 Evening Driller: Justin McDonald  
 Morning Driller: Frank Symank  
 Relief: Kyle Stout

Drilling Fluid: Mud-Co/Service Mud  
 Engineer: Rick Hughes

Logging Company: Pioneer Energy Services  
 Engineers: Daniel Martin/Chris Desaire  
 Logs Ran: DI, CDNL, Micro

Gas Detector: None

Testing Company: Trilobite Testing, Inc.  
 Tester: Jim Svaty

| Deviation Survey |        |
|------------------|--------|
| Depth            | Survey |
| 572'             | 1/2°   |
| 3072'            | 2°     |
| RTD - 3450'      | 1 3/4° |

| Pipe Strap |                     |
|------------|---------------------|
| Depth      | Pipe Strap          |
| 3072'      | 0.8' Short to Board |

| Bit Record |         |       |      |               |          |           |       |       |  |
|------------|---------|-------|------|---------------|----------|-----------|-------|-------|--|
| Bit #      | Size    | Make  | Type | Serial Number | Depth In | Depth Out | Feet  | Hours |  |
| 1          | 12 1/4" | Smith | RT   | RT            | 0'       | 572'      | 572'  | 8.25  |  |
| 2          | 7 7/8"  | Smith | F27  | PX0883        | 572'     | 3450'     | 2878' | 74    |  |

| Surface Casing |  |
|----------------|--|
| 8.24.2012      | Ran 14 joints of new 23 #ft 8 5/8" casing, tallying 565', set @ 572' KB.<br>Cemented with 250 sacks common (2% gel, 3% calcium chloride). Cement did circulate.<br>Plug down @ 1045 hrs 8.24.12. By Quality Oil Well Cementing, Inc. |

| Production Casing |  |
|-------------------|--|
| 8.30.2012         | Ran 82 joints of new 14 #ft 5 1/2" production casing, tallying 3529.33', laid 1 down, set @ 3437.43' KB.<br>Cemented with 70 sacks SMD followed by 100 sacks. Cement did circulate.<br>By Swift Services, Inc. |

# CARMEN SCHMITT, INC.

## Daily Drilling Report

| Date      | 7:00 AM Depth              | Previous 24 Hours of Operations  |
|-----------|----------------------------|--|
| 8.27.2012 | 2900'                      | <p>Drilling and connections Topeka. Geologist Derek W. Patterson on location, 2230 hrs 8.26.12. Drilling and connections Topeka, King Hill, Queen Hill, and into Plattsmouth zone. CFS @ 2900' (Plattsmouth).</p> <p>Made 660' over past 24 hrs of operations.</p> <p>WOB: 30-32k RPM: 65 PP: 800 SPM: 60</p> <p>DMC: \$3,766.60 CMC: \$8,051.90</p>   |
| 8.28.2012 | 3112'                      | <p>Resume drilling and connections Plattsmouth, Heebner, Toronto, Douglas, Brown Lime, and into Lansing. CFS @ 3050' (LKC 'B'). Resume drilling and connections Lansing. CFS @ 3072' (LKC 'C'). Decision made to run DST to evaluate the Douglas Sand and upper Lansing zones. CTCH, short trip (20 stands). CTCH, drop survey, strap out for DST #1, 1840 hrs 8.27.12. TIH with tool. Conducting DST #1, test successful. TIH with bit, CTCH, resume drilling following DST #1, 0500 hrs 8.28.12. Drilling and connections Lansing.</p> <p>Made 212' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 800-900 SPM: 60</p> <p>DMC: \$924.75 CMC: \$6,976.65</p>   |
| 8.29.2012 | 3318'                      | <p>Drilling and connections Lansing. CFS @ 3136' (LKC 'G'). Resume drilling and connections Lansing. CFS @ 3219' (LKC 'J'). Decision made to run DST to evaluate Lansing 'G' - 'J' zones. CTCH, TOH for DST #2, 1420 hrs 8.28.12. TIH with tool. Conducting DST #2, test successful. TIH with bit, CTCH, resume drilling following DST #2, 2345 hrs 8.28.12. Drilling and connections lower Lansing, Base Kansas City, and into Basal Penn Conglomerate. CFS @ 3300' (BPCG). Resume drilling Basal Penn Conglomerate. CFS @ 3307' (BPCG). Resume drilling and connections Basal Penn Conglomerate. CFS @ 3318' (Conglomerate).</p> <p>Made 208' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 900 SPM: 60</p> <p>DMC: \$999.60 CMC: \$7,976.25</p>   |
| 8.30.2012 | RTD - 3450'<br>LTD - 3452' | <p>CFS @ 3318' (BPCG). Resume drilling Basal Penn Conglomerate. CFS @ 3328' (BPCG). Resume drilling Basal Penn Conglomerate and into Precambrian Quartzite. CFS @ 3340' (Precambrian). Resume drilling and connections Precambrian Quartzite ahead to RTD of 3450'. Production casing on location. RTD reached, 1800 hrs 8.29.12. CTCH, drop survey, TOH for open hole logging operations, 1945 hrs 8.29.12. Rig up loggers. Commence open hole logging operations, 2115 hrs 8.29.12. Open hole logging operations complete, 0045 hrs 8.30.12. Orders received to run 5 1/2" production casing for further evaluation of the Ney Unit #7. If well proves to be non-commercial, it will be completed as a saltwater disposal well in the Precambrian Quartzite.</p> <p>Geologist Derek W. Patterson off location, 0110 hrs 8.30.12.</p> <p>Made 132' over past 24 hrs of operations.</p> <p>WOB: 32k RPM: 65 PP: 900 SPM: 60</p> <p>DMC: \$304.15 CMC: \$8,280.40</p> |

# CARMEN SCHMITT, INC.

## Well Comparison Sheet

| Formation               | Drilling Well   |         |      |         | Comparison Well  |         |                            |      | Comparison Well  |         |                            |     |
|-------------------------|---|---------|------|---------|--|---------|----------------------------|------|--|---------|----------------------------|-----|
|                         | Carmen Schmitt, Inc. - Ney Unk #7<br>2518' FNL & 2300' FWL<br>Sec. 32 - T15S - R12W |         |      |         | Rock Island - Hilgenberg #6<br>NW NE SW<br>Sec. 32 - T15S - R12W |         |                            |      | Rock Island - Hafeman #1 'OWWO'<br>SE SW NW<br>Sec. 32 - T15S - R12W |         |                            |     |
|                         | 1859 KB   |         |      |         | Oil - LKC 'G' & 'J'<br>1860 KB                                   |         | Structural<br>Relationship |      | Oil - LKC 'A', 'C', 'H'<br>1871 KB                                   |         | Structural<br>Relationship |     |
|                         | Sample  | Sub-Sea | Log  | Sub-Sea | Log  | Sub-Sea | Sample                     | Log  | Log  | Sub-Sea | Sample                     | Log |
| Anhydrite               | 798   | 1061    | 798  | 1061    |  |         |                            |      |  |         |                            |     |
| Topeka                  | 2661  | -802    | 2661 | -802    | 2651   | -791    | -11                        | -11  | 2673   | -802    | 0                          | 0   |
| King Hill               | 2786  | -827    | 2786 | -827    | 2773   | -813    | -14                        | -14  | 2799   | -828    | 1                          | 1   |
| Queen Hill              | 2852  | -893    | 2853 | -894    | 2838   | -878    | -15                        | -16  | 2865   | -894    | 1                          | 0   |
| Plattsmouth             | 2875  | -1018   | 2874 | -1015   | 2860   | -1000   | -16                        | -15  | 2887   | -1016   | 0                          | 1   |
| Heebner                 | 2938  | -1079   | 2939 | -1080   | 2926   | -1066   | -13                        | -14  | 2951   | -1080   | 1                          | 0   |
| Toronto                 | 2956  | -1097   | 2956 | -1097   | 2944   | -1084   | -13                        | -13  | 2969   | -1098   | 1                          | 1   |
| Douglas                 | 2970  | -1111   | 2969 | -1110   | 2957   | -1097   | -14                        | -13  | 2981   | -1110   | -1                         | 0   |
| Brown Lime              | 3022  | -1163   | 3023 | -1164   | 3010   | -1150   | -13                        | -14  | 3038   | -1167   | 4                          | 3   |
| Lansing                 | 3031  | -1172   | 3034 | -1175   | 3020   | -1160   | -12                        | -15  | 3047   | -1176   | 4                          | 1   |
| LKC 'B'                 | 3036  | -1177   | 3038 | -1180   | 3024   | -1164   | -13                        | -16  | 3054   | -1183   | 6                          | 3   |
| LKC 'C'                 | 3060  | -1201   | 3064 | -1205   | 3048   | -1188   | -13                        | -17  | 3077   | -1208   | 5                          | 1   |
| LKC 'D'                 | 3078  | -1219   | 3083 | -1224   | 3068   | -1208   | -11                        | -16  | 3094   | -1223   | 4                          | -1  |
| LKC 'F'                 | 3100  | -1241   | 3103 | -1244   | 3088   | -1228   | -13                        | -16  | 3114   | -1243   | 2                          | -1  |
| LKC 'G'                 | 3121  | -1262   | 3119 | -1260   | 3104   | -1244   | -18                        | -16  | 3135   | -1264   | 2                          | 4   |
| Muncie Creek            | 3162  | -1303   | 3162 | -1303   | 3149   | -1289   | -14                        | -14  | 3178   | -1307   | 4                          | 4   |
| LKC 'H'                 | 3170  | -1311   | 3168 | -1309   | 3159   | -1299   | -12                        | -10  | 3184   | -1313   | 2                          | 4   |
| LKC 'I'                 | 3185  | -1326   | 3186 | -1327   | 3176   | -1316   | -10                        | -11  | 3205   | -1334   | 8                          | 7   |
| LKC 'J'                 | 3204  | -1345   | 3204 | -1345   | 3195   | -1335   | -10                        | -10  | 3226   | -1355   | 10                         | 10  |
| Stark                   | 3226  | -1368   | 3227 | -1368   | 3218   | -1358   | -11                        | -10  | 3244   | -1373   | 4                          | 5   |
| LKC 'K'                 | 3241  | -1382   | 3242 | -1383   | 3233   | -1373   | -9                         | -10  | 3258   | -1387   | 5                          | 4   |
| Hushpuckney             | 3264  | -1405   | 3264 | -1405   | 3254   | -1384   | -11                        | -11  | 3282   | -1411   | 6                          | 6   |
| LKC 'L'                 | 3271  | -1412   | 3270 | -1411   | 3262   | -1402   | -10                        | -9   | 3291   | -1420   | 8                          | 9   |
| Base Kansas City        | 3282  | -1423   | 3282 | -1423   | 3270   | -1410   | -13                        | -13  | 3298   | -1427   | 4                          | 4   |
| Basal Penn Conglomerate | 3293  | -1434   | 3293 | -1434   | 3278   | -1416   | -18                        | -18  | 3316   | -1445   | 11                         | 11  |
| Arbuckle                | Not Present   |         |      |         | Not Present  |         |                            |      | Not Present  |         |                            |     |
| Precambrian Quartzite   | 3335  | -1476   | 3336 | -1477   | 3281   | -1421   | -55                        | -56  | 3368   | -1497   | 21                         | 20  |
| Total Depth             | 3450  | -1591   | 3452 | -1593   | 3289   | -1429   | -162                       | -164 | 3378   | -1507   | -84                        | -86 |

Precambrian tops are sample tops; no log coverage across zone.



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47649 **DST#: 1**  
Test Start: 2012 08 27 @ 20:00:00

## GENERAL INFORMATION:

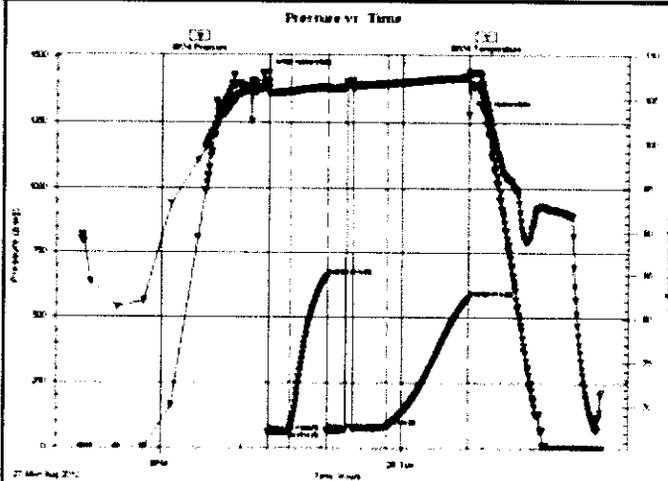
Formation: **Douglas Sand & LKC**  
 Deviated: No Whipstock 1859.00 ft (KB)  
 Time Tool Opened: 22:20:20  
 Time Test Ended: 02:30:00  
 Interval: **2968.00 ft (KB) To 3072.00 ft (KB) (TVD)**  
 Total Depth: 3072.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches-Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jim Svaty  
 Unit No: 58  
 Reference Elevations: 1859.00 ft (KB)  
 1854.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8674

Outside

Press@RunDepth: 81.13 psig @ 2974.00 ft (KB)  
 Start Date: 2012 08 27 End Date: 2012 08 28  
 Start Time: 20:00:05 End Time: 02:29:20  
 Capacity: 8000.00 psig  
 Last Calib: 2012 08 28  
 Time On Btm: 2012 08 27 @ 22:20:00  
 Time Off Btm: 2012 08 28 @ 00:49:20

**TEST COMMENT:** 15-FP- Surface Blow Building to 3in  
 30-ISP- No Blow  
 45-FPP- No Blow in 12min Flushed Surface Blow Died in 38mn  
 60-FSP- No Blow



## PRESSURE SUMMARY

| Time (Min) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 1440.14         | 106.24       | Initial Hydro-static |
| 1          | 59.60           | 105.63       | Open To Flow (1)     |
| 16         | 62.89           | 105.81       | Shut-In(1)           |
| 44         | 658.17          | 106.32       | End Shut-In(1)       |
| 45         | 66.48           | 105.99       | Open To Flow (2)     |
| 89         | 81.13           | 106.73       | Shut-In(2)           |
| 150        | 577.56          | 107.47       | End Shut-In(2)       |
| 150        | 1283.52         | 107.88       | Final Hydro-static   |

## Recovery

| Length (ft) | Description   | Volume (bbl) |
|-------------|---------------|--------------|
| 122.00      | Oil Speck Mud | 0.60         |
|             |               |              |
|             |               |              |
|             |               |              |
|             |               |              |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (Mcfd) |
|--|----------------|-----------------|-----------------|
|  |                |                 |                 |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Carmen Schmitt Inc  
P.O. Box 47  
Great Bend KS 67530-0047  
ATTN: Derek Patterson

**32 15s 12w Russell**  
**Ney Unit # 7**  
Job Ticket: 47650 **DST#: 2**  
Test Start: 2012.08.28 @ 15:22:00

### GENERAL INFORMATION:

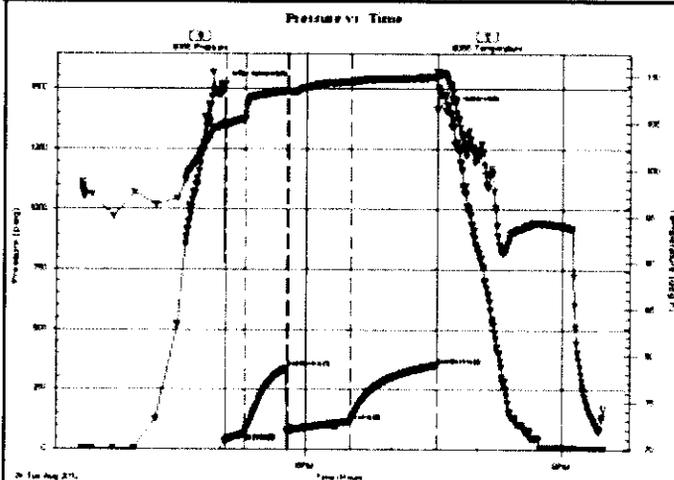
Formation: **LKC "G-J"**  
 Deviated: No Whipstock 1859.00 ft (KB)  
 Time Tool Opened: 17:02:45  
 Time Test Ended: 21:29:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jim Svaty  
 Unit No: 58  
 Interval: **3116.00 ft (KB) To 3219.00 ft (KB) (TVD)**  
 Total Depth: 3219.00 ft (KB) (TVD)  
 Reference Elevations: 1859.00 ft (KB)  
 1854.00 ft (CF)  
 Hole Diameter: 7.88 inches-hole Condition: Fair  
 KB to GRFC: 5.00 ft

### Serial #: 8355

Inside

Press@RunDepth: 116.46 psig @ 3121.00 ft (KB)  
 Start Date: 2012.08.28 End Date: 2012.08.28  
 Start Time: 15:22:05 End Time: 21:28:29  
 Capacity: 8000.00 psig  
 Last Calib: 2012.08.28  
 Time On Btm: 2012.08.28 @ 17:02:30  
 Time Off Btm: 2012.08.28 @ 19:31:30

**TEST COMMENT:** 15-FP- BOB in 11min  
 30-ISP- No Blow  
 45-FFP- BOB in 5 1/2 min  
 60-FSP- Weak Surface Blow Died in 5min



### PRESSURE SUMMARY

| Time (Min) | Pressure (psig) | Temp (deg F) | Annotation           |
|------------|-----------------|--------------|----------------------|
| 0          | 1515.55         | 104.93       | Initial Hydro-static |
| 1          | 32.82           | 104.36       | Open To Flow (1)     |
| 14         | 62.69           | 105.33       | Shut-In(1)           |
| 44         | 335.68          | 108.37       | End Shut-In(1)       |
| 45         | 75.19           | 108.33       | Open To Flow (2)     |
| 89         | 116.46          | 109.39       | Shut-In(2)           |
| 149        | 350.28          | 109.89       | End Shut-In(2)       |
| 149        | 1417.17         | 110.50       | Final Hydro-static   |

### Recovery

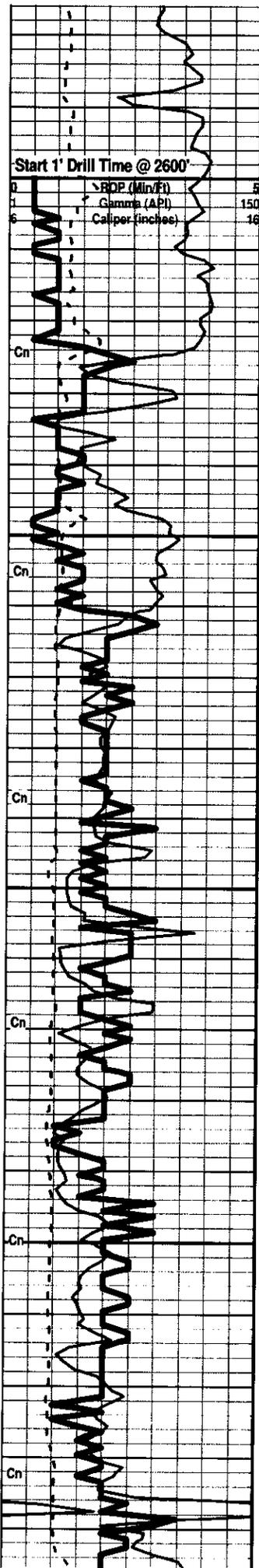
| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 205.00      | OCM 12%o 88% m | 1.01         |
| 0.00        | 464 GP         | 0.00         |
|             |                |              |
|             |                |              |
|             |                |              |

\* Recovery from multiple tests.

### Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (McPd) |
|--|----------------|-----------------|-----------------|
|  |                |                 |                 |





**Start 10' Wet & Dry Samples @ 2600'**

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty.

Limestone: gray dk gray cream brown, very dense matrix, microxin, barren, no visible porosity, no shows noted, no fluorescence.

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty.

Limestone: gray dk gray cream brown, very dense matrix, microxin, fossiliferous to barren, some pieces very shaley, poor-no visible porosity, no shows noted, dull pale yellow mineral fluorescence in scattered pieces.

Shale: gray dk gray lt gray, blocky to rounded, hard to softer and mushy, very silty, with some scattered Siltstone: gray lt gray, speckled, dense matrix, vgrained, heavily micaceous, fair intergranular porosity, no shows noted, no fluorescence.

**—Topeka 2661 (-802)—**

Limestone: lt tan gray cream, softer sub-chalky to dense tight matrix, sub-fossiliferous to barren, heavy 2ndary xin in majority of pieces, fair-poor interxin porosity, no shows noted, no fluorescence.

Predominately Limestone: gray dk gray, dense matrix, microxin, barren to sub-fossiliferous, poor interxin porosity, no shows noted, no fluorescence, with scattered Limestone as above.

Limestone: gray dk gray, dense matrix, microxin, barren to sub-fossiliferous, poor interxin porosity, no shows noted, no fluorescence, with some interbedded Shale: gray dk gray, blocky to rounded, mostly soft, silty in part.

Limestone: gray cream mottled, softer sub-chalky to dense tight matrix, fossiliferous to barren, fair-poor interxin porosity, no shows noted, spotty bright yellow mineral fluorescence in few pieces, with fair amount of Limestone as above.

**Geologist Derek W. Patterson On Location, 2230 hrs 8.26.12**

Limestone: cream lt cream off white lt gray some mottled, sub-chalky dense matrix, micro-vxin, mostly fossiliferous to heavily fossiliferous, fair amount of 2ndary xin along edges, fair interxin porosity, no shows noted, poor spotty bright lt yellow mineral fluorescence.

Limestone: cream lt cream, mostly dense matrix, vxin, fossiliferous to heavily fossiliferous, scattered arenaceous material, fair amount of 2ndary xin, some imbedded calcite crystals, overall fair interxin porosity, no shows noted, scattered poor mineral fluorescence.

Limestone: cream lt cream tan, dense cherty matrix, micro-vxin, fossiliferous to heavily fossiliferous, scattered loose fossils in sample, fair interfossiliferous porosity, no shows noted, no fluorescence, with some scattered Chert: cream tan, fresh and sharp, fossiliferous in part.

Limestone: cream gray off white mottled, sub-chalky slightly dense matrix, micro-vxin, most fossiliferous, fair amount of imbedded calcite crystals and scattered 2ndary xin fill, fair interxin porosity in most, no shows noted, scattered poor mineral fluorescence.

**—King Hill 2786 (-927)—**

Shale: black dk gray, carbonaceous, blocky, hard to waxy, good show gas bubbles.

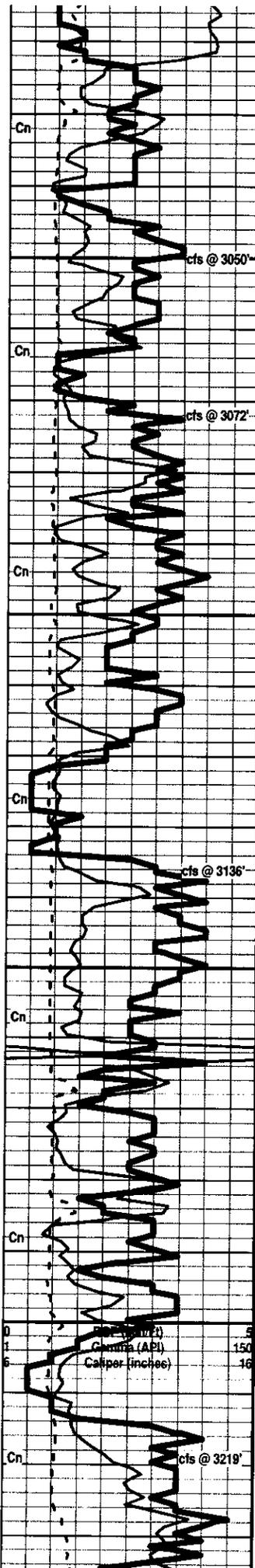
Shale: gray dk gray, blocky to rounded, mostly hard to waxy, with scattered Siltstone: gray lt gray, speckled, dense matrix, vgrained, heavily micaceous, fair intergranular porosity, no shows noted, no

0 FG, C1-C5 200

Vis: 49  
Wt: 8.7  
LCM: 1/2 #bbt

Vis: 54  
Wt: 8.8





Shale: gray dk gray, blocky and waxy, very silty, pyritic in part, with scattered chert. gray dk gray, speckled, dense matrix, vfrained, heavily micaceous, fair intergranular porosity, no shows noted, no fluorescence, sample washes gray.

**Brown Lime 3023 (-1164)**  
 Limestone: tan brown, dense tight matrix, microxdn, sub-fossiliferous to barren, overall poor visible porosity, no shows noted, no fluorescence, grading to Shale: gray dk gray, blocky to rounded, hard to soft, abundant silty material.

**Lansing 3034 (-1175)**  
 3050' cfs 0" - Limestone: It cream it tan, mostly dense matrix, microxdn, oolitic in part, poor interdn porosity, no shows noted, very poor mineral fluorescence, no odor.  
 3050' 20" - Limestone: cream it cream, dense xdn matrix, microxdn, oolitic with good oomoldic development, solution vugs, good oomoldic/vuggy porosity, even it brown saturated stain, poor show it brown oil from porosity with fair increase upon break, spotty bright it yellow fluorescence, good bluish-white cut fluorescence, fair odor.  
 3050' cfs 40"/60" - Limestone: cream it cream it tan, dense tight matrix, microxdn, fossiliferous/oolitic, scattered poor oomoldic development, some 2ndary xdn, overall poor oomoldic porosity, no shows noted, poor dull mineral fluorescence, no odor.  
 Limestone: as above, grading to predominately Shale: gray dk gray, blocky to rounded, mostly soft, some fissile in part.  
 3072' cfs 20"/40" - Limestone: cream off white it tan, dense to slightly friable matrix, micro-vxdn, heavily oolitic with good oomoldic development, solution vugs, heavy 2ndary xdn, fair-good oomoldic/vuggy porosity, slight golden brown saturated stain, poor-fair show brown oil upon break in few pieces, spotty bright it yellow fluorescence, fair forced bluish-white cut fluorescence in show rocks, faint odor.  
 Limestone: gray it gray, dense tight matrix, micro-cryptoxdn, mostly barren, poor visible porosity, no shows noted, no fluorescence, no odor.  
 Shale: gray dk gray, blocky to rounded, mostly softer to waxy.  
 Limestone: gray cream tan, dense tight matrix, heavily oolitic, abundant 2ndary xdn fill around oolites, overall poor interoolitic porosity, few pieces with poor golden brown saturated stain in porosity, no live shows noted, no fluorescence, no odor, with some scattered Chert: cream tan, fresh and sharp, oolitic/fossiliferous.  
 Limestone: gray dk gray dk cream, dense tight matrix, micro-cryptoxdn, most oolitic/fossiliferous with scattered lithographic non-descript, shaley in part, poor visible porosity, no shows noted, no fluorescence, with Chert: cream tan gray, fresh and sharp, oolitic to barren, and interbedded Shale: gray, blocky, hard to soft.  
 Limestone: It cream off white, dense to sub-friable matrix, microxdn, heavily oolitic, scattered small solution vugs, good interoolitic/vuggy porosity in most, spotty-even golden brown saturated stain in porosity, very poor show it brown live oil upon break, spotty bright it yellow fluorescence, faint odor, with scattered Chert as above.  
 Limestone: It cream off white, dense tight cherty matrix, micro-cryptoxdn, barren, poor visible porosity, no shows noted, no fluorescence, no odor, sample washes white.

3136' cfs 20"/40"/60" - Limestone: It cream off white, sub-friable matrix, micro-vxdn, oolitic with good-excellent oomoldic/vug development, good oomoldic/vuggy porosity with fair amount of 2ndary xdn fill, spotty it brown saturated stain in porosity of most, poor-fair show oil from porosity with fair-good increase upon break, spotty bright it yellow fluorescence, good forced bluish-white to milky-white cut fluorescence, strong odor, with some scattered loose Chalk, sample washes white.  
 Limestone: cream it tan, dense tight matrix, microxdn, sub-fossiliferous/oolitic, overall poor interdn/visible porosity, some 2ndary xdn along edges, no shows noted, no fluorescence.

Limestone: cream it cream it gray some mottled, dense sub-chalky to xdn matrix, micro-vxdn, fossiliferous/oolitic, fair-poor interdn porosity, no shows noted, no fluorescence, with abundant Chert: black dk gray dk brown, fresh and sharp, barren.

**Muncie Creek 3162 (-1303)**  
 Shale: black, carbonaceous, blocky, hard to waxy, good show bleeding gas bubbles.  
 Shale: gray dk gray some black, carbonaceous in part, blocky to rounded, mostly soft with some waxy.  
 Limestone: cream tan, dense matrix, microxdn, heavily bioclastic, overall fair interfossiliferous porosity with majority filled by heavy 2ndary xdn around fossils, no shows noted, poor spotty bright it yellow mineral fluorescence, no odor.  
 Shale: gray dk gray, blocky to rounded, mostly soft.  
 Limestone: off white it cream, sub-friable matrix, micro-vxdn, heavily fossiliferous/oolitic, some fair oomoldic/vug development, overall good interdn/oomoldic/vuggy porosity, good golden brown saturated stain, poor show oil from porosity with slight increase upon break, spotty bright it yellow fluorescence, fair forced bluish-white cut fluorescence, faint odor, with Limestone: cream it cream, dense matrix, microxdn, sub-fossiliferous, poor visible porosity, no shows noted.

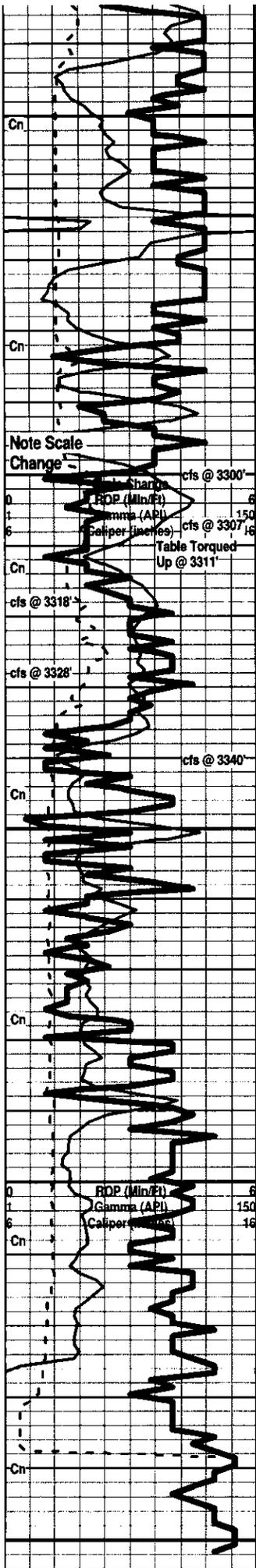
3219' cfs 0" - Shale: gray dk gray, blocky to rounded, mostly soft.  
 3219' cfs 20" - Limestone: It cream off white, sub-friable matrix, microxdn, oolitic with good-excellent oomoldic/vug development, good oomoldic/vuggy porosity with fair amount of 2ndary xdn fill in pore space, fair it brown saturated stain in porosity, fair show oil with good increase upon break, even-spotty bright it yellow fluorescence, streaming milky-white cut fluorescence, moderate-strong odor.  
 3219' cfs 40"/60" - Limestone: cream it cream off white, dense tighter matrix, microxdn, sub-oolitic to barren, overall poor visible porosity, no shows noted, no fluorescence, carrying faint odor from above.  
 Limestone: cream it cream, dense tight matrix, microxdn, sub-fossiliferous to barren, poor visible porosity, no shows noted, no fluorescence, no odor.

**Stark 3227 (-1368)**  
 Shale: black dk gray gray, carbonaceous in part, blocky to rounded, nearly all soft, poor show bleeding gas bubbles upon break in carbonaceous material.

Mud-Co Mud Ck @ 3050'  
 1320 hrs 8.27.12  
 Vis 42 Wt 9.0  
 PV 10 YP 12  
 WL 9.2  
 Cake 1/32  
 pH 10.0  
 CHL 3,800 ppm  
 Cal 20  
 Sol 4.8  
 LCM: 1 #/bbf  
 DMC: \$924.75  
 CMC: \$6,976.65

Mud-Co Mud Ck @ 3215'  
 1230 hrs 8.28.12  
 Vis 45 Wt 9.1  
 PV 13 YP 9  
 WL 8.8  
 Cake 1/32  
 pH 10.5  
 CHL 3,800 ppm

TG, C1-C5 200



Predominately Shale: gray dk gray lt green, mostly rounded and softer with some scattered blocky fissile material, silty in part.

Limestone: cream lt cream off white tan, dense tight matrix, microxn, sub-fossiliferous to barren, heavy amount of 2ndary xln along edges, poor visible porosity, no shows noted, no fluorescence, no odor.

Limestone: cream lt tan, dense tight matrix, microxn, sub-fossiliferous to barren, heavy amount of 2ndary xln along edges, poor visible porosity, no shows noted, no fluorescence, no odor.

**Hushpuckney 3264 (-1405)**

Shale: trace black, carbonaceous, blocky, hard and waxy, slight show bleeding gas bubbles upon break, with Shale: gray dk gray dk green, blocky to rounded, hard to softer and waxy, silty/pyritic in part.

Limestone: cream lt tan, dense tight matrix, microxn, sub-fossiliferous to barren, fair amount of 2ndary xln fill, poor visible porosity, no shows noted, no fluorescence, no odor.

**Base Kansas City 3282 (-1423)**

Shale: gray dk gray brick red dk green, blocky to rounded, most softer, silty/pyritic.

Limestone: tan brown, dense tight cherty matrix, micro-vfxln, barren, poor visible porosity, no shows noted, no fluorescence, no odor.

**Basal Penn Conglomerate 3293 (-1434)**

3300' cfs 20"/40" - INFLUX Conglomerate - Shale: as above, with Limestone: tan lt cream, dense tight cherty matrix, micro-vfxln, barren, poor visible porosity, no shows noted, no fluorescence, and scattered Clay: red, round and soft, some sandy.

3307' cfs 20"/40" - Continued Conglomerate as above, with scattered Limestone: lt cream off white, dense, microxn, barren, small vugs, 2ndary xln along edges, fair porosity, slight stain in vugs, poor show heavy brown oil with fair increase upon break, even lt yellow fluorescence, fair bluish-white cut fluorescence, no odor.

3318' cfs 20"/40" - Conglomerate - Mixed Shale, Chert, and Limestone, no shows noted, with scattered erosional Quartzite: pink lt pink red gray lt gray clear, dense and hard, fractured, fair-good amount of magnetite and shale/mica inclusions, poor visible porosity, no live shows noted, no fluorescence, no cut fluorescence, no odor, samples washes reddish-brown.

3328' cfs 20"/40"/60" - Conglomerate - Mixed Shale, Chert, Limestone, and continued scattered erosional Quartzite, no shows noted, no odor, samples washes reddish-brown.

3340' cfs 20" - Conglomerate - Mixed as above, no shows noted, no fluorescence.

**Precambrian Quartzite 3336 (-1477)**

3340' cfs 40"/60" - INFLUX - Quartz/Quartzite: loose clear grains, most large and uncemented, angular to sub-rounded, poorly sorted, fair-good intergranular porosity in cemented clusters, no shows noted, no fluorescence, no cut fluorescence, no odor.

INFLUX - Quartzite: clear/white lt pink lt gray lt red, dense and hard, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white lt pink lt gray lt red, dense and hard, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white lt pink lt gray lt red, dense and hard with some granular surface texture, heavily fractured, fair amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor, with scattered Schist: metallic lt red gray lt gray maroon, mostly hard, flakey.

Quartzite: predominately clear/white with some scattered lt pink, dense and hard with some granular surface texture, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard with some granular surface texture, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair-poor surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

Quartzite: clear/white, dense and hard, heavily fractured, heavy amount of magnetite and shale/mica inclusions, fair-poor surface porosity and scattered fracture porosity, no shows noted, no fluorescence, no odor.

**LTD 3452 (-1593)**

Cal 20  
Sol 5.5  
LCM: 1 #/bbl  
DMC: \$999.60  
CMC: \$7,976.25

Vis: 48  
Wt: 9.2  
LCM: 1 #/bbl

Mud-Co Mud Ck  
@ 3386'  
1255 hrs 8.29.12  
Vis 49 Wt 9.2  
PV 15 YP 12  
WL 9.2  
Cake 1/32"  
pH 10.0  
CHL 5,000 ppm  
Cal 20  
Sol 6.1  
LCM: 1 #/bbl  
DMC: \$304.15  
CMC: \$8,280.40

Vis: 50  
Wt: 9.1  
LCM: 1 #/bbl



# SWIFT



Services, Inc.

P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

|           |           |
|-----------|-----------|
| DATE      | INVOICE # |
| 8/30/2012 | 23271     |

|   |
|---|
| BILL TO   |
| Carmen Schmitt, Inc.<br>P. O. Box 47<br>915 Harrison<br>Great Bend, KS 67530-0047 |

- Acidizing
- Cement
- Tool Rental

| TERMS                               | Well No.                                 | Lease    | County  | Contractor | Well Type | Well Category | Job Purpose       | Operator           |
|-------------------------------------|--|----------|---------|------------|-----------|---------------|-------------------|--------------------|
| Net 30                              | #7                                       | Ney Unit | Russell | Mallard JV | Oil       | Development   | 5-1/2" LongString | Jason              |
| PRICE REF.                          | DESCRIPTION                              |          |         |            | QTY       | UM            | UNIT PRICE        | AMOUNT             |
| 575D                                | Mileage - 1 Way                          |          |         |            | 50        | Miles         | 6.00              | 300.00             |
| 578D-L                              | Pump Charge - Long String - 3435 Feet    |          |         |            | 1         | Job           | 1,500.00          | 1,500.00           |
| 402-5                               | 5 1/2" Centralizer                       |          |         |            | 8         | Each          | 70.00             | 560.00T            |
| 403-5                               | 5 1/2" Cement Basket                     |          |         |            | 2         | Each          | 250.00            | 500.00T            |
| 404-5                               | 5 1/2" Port Collar - 1502 Feet           |          |         |            | 1         | Each          | 2,400.00          | 2,400.00T          |
| 406-5                               | 5 1/2" Latch Down Plug & Baffle          |          |         |            | 1         | Each          | 250.00            | 250.00T            |
| 407-5                               | 5 1/2" Insert Float Shoe With Auto Fill  |          |         |            | 1         | Each          | 350.00            | 350.00T            |
| 281                                 | Mud Flush                                |          |         |            | 500       | Gallon(s)     | 1.25              | 625.00T            |
| 221                                 | Liquid KCL (Clayfix)                     |          |         |            | 2         | Gallon(s)     | 25.00             | 50.00T             |
| 276                                 | Flocele                                  |          |         |            | 50        | Lb(s)         | 2.00              | 100.00T            |
| 283                                 | Salt                                     |          |         |            | 500       | Lb(s)         | 0.20              | 100.00T            |
| 284                                 | Calseal                                  |          |         |            | 5         | Sack(s)       | 35.00             | 175.00T            |
| 285                                 | CFR-1                                    |          |         |            | 50        | Lb(s)         | 4.00              | 200.00T            |
| 290                                 | D-Air                                    |          |         |            | 2         | Gallon(s)     | 35.00             | 70.00T             |
| 325                                 | Standard Cement                          |          |         |            | 100       | Sacks         | 13.50             | 1,350.00T          |
| 330                                 | Swift Multi-Density Standard (MIDCON II) |          |         |            | 100       | Sacks         | 16.50             | 1,650.00T          |
| 581D                                | Service Charge Cement                    |          |         |            | 200       | Sacks         | 2.00              | 400.00             |
| 583D                                | Drayage                                  |          |         |            | 511.5     | Ton Miles     | 1.00              | 511.50             |
|                                     | Subtotal                                 |          |         |            |           |               |                   | 11,091.50          |
|                                     | Sales Tax Russell County                 |          |         |            |           |               | 8.30%             | 695.54             |
|                                     | 12910.0007                               |          |         |            |           |               |                   |                    |
|                                     | 710/43                                   |          |         |            |           |               |                   |                    |
|                                     | Cement Pdn Csg                           |          |         |            |           |               |                   |                    |
|                                     | Well #12                                 |          |         |            |           |               |                   |                    |
| <b>We Appreciate Your Business!</b> |  |          |         |            |           |               | <b>Total</b>      | <b>\$11,787.04</b> |



CHARGE TO: **CARMEN SCHMITT**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET No 23271

PAGE 1 OF 2

SERVICE LOCATIONS: 1. **NESS CITY, KS**  
 WELL/PROJECT NO.:  
 LEASE: **KEY UNIT # 7**  
 COUNTY/PARISH: **RUSSELL**  
 STATE: **KS**  
 CITY: **BEAVER, KS**  
 DATE: **30 AUG 12**  
 OWNER:  
 TICKET TYPE:  SERVICE  SALES  
 CONTRACTOR: **MALLARD DRILLING**  
 RIG NAME/NO.:  
 SHIPPED VIA: **DELIVERED TO**  
 ORDER NO.:  
 WELL TYPE: **OIL**  
 WELL CATEGORY: **DEVELOPMENT**  
 JOB PURPOSE: **S 1/2 LONGSTRING**  
 WELL PERMIT NO.:  
 WELL LOCATION: **4N, 12W, 1/2N, E JWO**  
 REFERRAL LOCATION:  
 INVOICE INSTRUCTIONS:

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | DESCRIPTION                    | QTY. |         | UNIT PRICE |         | AMOUNT  |
|-----------------|-------------------------------------|------------|------|----|--------------------------------|------|---------|------------|---------|---------|
|                 |                                     | LOC        | ACCT | DF |                                |      | UM      |            | UM      |         |
| 575             |                                     |            |      |    | MILEAGE #110                   | 50   | MIL     | 6.00       |         | 300.00  |
| 578             |                                     |            |      |    | PUMP CHARGE                    | 1    | 3435 FT | 1500.00    |         | 1500.00 |
| 402             |                                     |            |      |    | CENTRALIZERS                   | 8    | EA      | 70.00      |         | 560.00  |
| 403             |                                     |            |      |    | CEMENT BASKETS                 | 2    | EA      | 250.00     |         | 500.00  |
| 404             |                                     |            |      |    | PORT COLLAR                    | 1    | EA      | 2400.00    | 1502 FT | 2400.00 |
| 406             |                                     |            |      |    | LATCH DOWN PLUG & BAFFLE       | 1    | EA      | 250.00     |         | 250.00  |
| 407             |                                     |            |      |    | INSERT FLOAT SHAOE W/AUTO FILL | 1    | EA      | 350.00     |         | 350.00  |
| 281             |                                     |            |      |    | MUD FLUSH                      | 500  | gal     | 1.25       |         | 625.00  |
| 221             |                                     |            |      |    | LIQUID KCL                     | 2    | gal     | 25.00      |         | 50.00   |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x *Purita H. Schulman*  
 DATE SIGNED: **30 AUG 12** TIME SIGNED: **1015**  
 A.M.  P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

| SURVEY   | AGREE  | UN-DECIDED | DIS-AGREE |
|--|--|------------|-----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?                               |  |            |           |
| WE UNDERSTOOD AND MET YOUR NEEDS?  |  |            |           |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?                                 |  |            |           |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? |  |            |           |
| ARE YOU SATISFIED WITH OUR SERVICE?                                      | <input type="checkbox"/> YES <input type="checkbox"/> NO |            |           |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND                |  |            |           |

|                  |           |
|------------------|-----------|
| PAGE TOTAL 1     | 6535.00   |
| 2                | 4556.50   |
| subtotal         | 11,091.50 |
| Russell TAX 8.3% | 695.54    |
| TOTAL            | 11,787.04 |

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this invoice.  
 SWIFT OPERATOR: *[Signature]* APPROVAL:  
 Thank You!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23271

CUSTOMER CARMEN SCHMITT WELLY UNIT # 7 DATE 30 AUG 12 PAGE 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | TIME | DESCRIPTION         | QTY.  |      | UNIT PRICE   |                  | AMOUNT             |
|-----------------|-------------------------------------|------------|------|----|------|---------------------|-------|------|--------------|------------------|--------------------|
|                 |                                     | LOC        | ACCT | DF |      |                     | QTY.  | UNIT | QTY.         | UNIT             |                    |
| 276             |                                     |            |      |    |      | FLOCELE             | 50    | lbs  |              | 2 <sup>50</sup>  | 100 <sup>50</sup>  |
| 283             |                                     |            |      |    |      | SALT                | 500   | lbs  |              | 2 <sup>50</sup>  | 100 <sup>50</sup>  |
| 284             |                                     |            |      |    |      | CALSEAL             | 5     | sk   |              | 35 <sup>50</sup> | 175 <sup>50</sup>  |
| 285             |                                     |            |      |    |      | CFR-1               | 50    | lbs  |              | 4 <sup>50</sup>  | 200 <sup>50</sup>  |
| 290             |                                     |            |      |    |      | DAIR                | 2     | sk   |              | 35 <sup>50</sup> | 70 <sup>50</sup>   |
| 325             |                                     |            |      |    |      | STANDARD CEMENT EA2 | 100   | sk   |              | 13 <sup>50</sup> | 1350 <sup>50</sup> |
| 330             |                                     |            |      |    |      | SWIFT MULTI DENSITY | 100   | sk   |              | 16 <sup>50</sup> | 1650 <sup>50</sup> |
| 581             |                                     |            |      |    |      | SERVICE CHARGE      |       |      | CUBIC FEET   | 2 <sup>50</sup>  | 400 <sup>50</sup>  |
| 583             |                                     |            |      |    |      | MILEAGE CHARGE      |       |      | TOTAL WEIGHT | 1 <sup>50</sup>  | 511 <sup>50</sup>  |
|                 |                                     |            |      |    |      |                     | 20460 |      | LOADED MILES |                  |                    |
|                 |                                     |            |      |    |      |                     |       |      | 50           |                  |                    |
|                 |                                     |            |      |    |      |                     |       |      | TON MILES    |                  | 511.50             |

CONTINUATION TOTAL 4556<sup>50</sup>

JOB LOG

SWIFT Services, Inc.

DATE: 30 AUG 12 PAGE NO.

CUSTOMER: CARMEN SCHMITT

WELL NO.

LEASE: NEY UNIT # 7

JOB TYPE: 52 LONGSTRING

TICKET NO. 23271

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS  |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|
|           |      |            |                    | T     | C | TUBING         | CASING |   |
|           | 0530 |            |                    |       |   |                |        | ON LOCATION   |
|           | 0645 |            |                    |       |   |                |        | START PIPE 5 1/2 - 14"<br>RTD @ 3450 LTD @ 3452<br>SHOE JT 20.88 SET @ 3435<br>CENTRALIZERS 3, 5, 7, 8, 9, 11, 13, 48<br>BASKETS 2, 46<br>PORT COLLAR TOP OF JT # 47 @ 1520 |
|           | 0811 |            |                    |       | ✓ |                |        | DROP BALL CIRCULATE   |
|           | 0854 | 6          | 12                 |       | ✓ |                | 300    | Pump 500 gal MUD FLUSH  |
|           |      | 6          | 20                 |       | ✓ |                | 300    | Pump 20 Bbl RCL FLUSH   |
|           | 0858 |            | 7                  |       |   |                |        | PLUG RH - 30 SX   |
|           | 0900 | 4          | 25 1/2             |       | ✓ |                |        | MIX 70 SX SMD   |
|           |      | 4          | 24                 |       | ✓ |                |        | MIX 100 SX EA2  |
|           | 0916 |            |                    |       |   |                |        | WASH OUT PUMP & LINES   |
|           | 0918 | 6          |                    |       | ✓ |                |        | START DISPLACING PLUG   |
|           | 0938 |            | 83                 |       | ✓ |                | 1400   | PLUG DOWN PSI UP - LATCH PLUG IN  |
|           | 0940 |            |                    |       | ✓ |                |        | RELEASE PSI - DRY   |
|           | 0945 |            |                    |       |   |                |        | WASH TRUCK  |
|           | 1015 |            |                    |       |   |                |        | JOB COMPLETE  |
|           |      |            |                    |       |   |                |        | THANKS #110   |
|           |      |            |                    |       |   |                |        | JASON JEFF JOHN   |

# SWIFT



Services, Inc.

P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



## Invoice

| DATE      | INVOICE # |
|-----------|-----------|
| 9/13/2012 | 22830     |

|   |
|---|
| <b>BILL TO</b>  |
| Carmen Schmitt, Inc.<br>P. O. Box 47<br>915 Harrison<br>Great Bend, KS 67530-0047 |

- Acidizing
- Cement
- Tool Rental

| TERMS                               | Well No.                                 | Lease    | County  | Contractor | Well Type | Well Category | Job Purpose        | Operator   |
|-------------------------------------|--|----------|---------|------------|-----------|---------------|--------------------|------------|
| Net 30                              | #7                                       | Ney Unit | Russell |            | Oil       | Development   | Cement Port Collar | Don        |
| PRICE REF.                          | DESCRIPTION                              |          |         |            | QTY       | UM            | UNIT PRICE         | AMOUNT     |
| 575D                                | Mileage - 1 Way                          |          |         |            | 50        | Miles         | 6.00               | 300.00     |
| 576D-D                              | Pump Charge - Port Collar - 1520 Feet    |          |         |            | 1         | Job           | 1,250.00           | 1,250.00   |
| 290                                 | D-Air                                    |          |         |            | 2         | Gallon(s)     | 35.00              | 70.00T     |
| 330                                 | Swift Multi-Density Standard (MIDCON II) |          |         |            | 200       | Sacks         | 16.50              | 3,300.00T  |
| 276                                 | Flocele                                  |          |         |            | 50        | Lb(s)         | 2.00               | 100.00T    |
| 104                                 | 5 1/2" Port Collar Tool Rental           |          |         |            | 1         | Each          | 250.00             | 250.00T    |
| 581D                                | Service Charge Cement                    |          |         |            | 200       | Sacks         | 2.00               | 400.00     |
| 583D                                | Drayage                                  |          |         |            | 497.55    | Ton Miles     | 1.00               | 497.55     |
|                                     | Subtotal                                 |          |         |            |           |               |                    | 6,167.55   |
|                                     | Sales Tax Russell County                 |          |         |            |           |               | 8.30%              | 308.76     |
|                                     | 12930.0007                               |          |         |            |           |               |                    |            |
|                                     | 730/43                                   |          |         |            |           |               |                    |            |
|                                     | Cement port collar                       |          |         |            |           |               |                    |            |
|                                     | Well file                                |          |         |            |           |               |                    |            |
| <b>We Appreciate Your Business!</b> |  |          |         |            |           |               | <b>Total</b>       | \$6,476.31 |



CHARGE TO: Lynna Schmitt  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET  
 No 22830

PAGE 1 OF 1

|   |  |                               |   |                          |                                    |                        |       |
|---|--|-------------------------------|---|--------------------------|------------------------------------|------------------------|-------|
| SERVICE LOCATIONS<br>1. <u>Hays, KS</u> | WELL/PROJECT NO.<br><u># 7</u>   | LEASE<br><u>Ney Unit</u>      | COUNTY/PARISH<br><u>Russell</u>               | STATE<br><u>KS</u>       | CITY                               | DATE<br><u>9-13-12</u> | OWNER |
| 2. <u>Ness Co, KS</u>                   | TICKET TYPE<br><input checked="" type="checkbox"/> SERVICE<br><input type="checkbox"/> SALES | CONTRACTOR                    | RIG NAME/NO.                                  | SHIPPED VIA<br><u>CT</u> | DELIVERED TO<br><u>N/Brown, KS</u> | ORDER NO.              |       |
| 3.                                      | WELL TYPE<br><u>Oil</u>  | WELL CATEGORY<br><u>11810</u> | JOB PURPOSE<br><u>Cement Port Collar 150'</u> | WELL PERMIT NO.          | WELL LOCATION                      |                        |       |
| 4. REFERRAL LOCATION                    | INVOICE INSTRUCTIONS   |                               |   |                          |                                    |                        |       |

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | DESCRIPTION                   | QTY. |     | UNIT PRICE |     | AMOUNT |
|-----------------|-------------------------------------|------------|------|----|-------------------------------|------|-----|------------|-----|--------|
|                 |                                     | LOC        | ACCT | DF |                               |      | UM  |            | UM  |        |
| 575             |                                     | 1          |      |    | MILEAGE #113                  | 50   | mi  | 1000       |     | 30000  |
| 576 D           |                                     | 1          |      |    | Pump Charge - cut Port Collar | 1    | hr  | 1250       | 100 | 125000 |
| 29D             |                                     | 1          |      |    | D-Air                         | 25   | gal | 3500       |     | 7000   |
| 330             |                                     | 2          |      |    | SAND Cement                   | 200  | lbs | 1650       | 100 | 33000  |
| 276             |                                     | 2          |      |    | Fluore                        | 50   | lbs | 200        |     | 10000  |
| 104             |                                     | 2          |      |    | Port Collar Tool Rental       | 1    | hr  | 250        |     | 25000  |
| 581             |                                     | 2          |      |    | Service Charge                | 200  | hrs | 1990       | 100 | 39800  |
| 583             |                                     | 2          |      |    | Drayage                       | 50   | mi  | 1975       | 100 | 98750  |

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

x Paul J. Hesterman  
 DATE SIGNED 9-13-12 TIME SIGNED 09:30 P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

|  |                              |                             |           |            |         |
|--|------------------------------|-----------------------------|-----------|------------|---------|
| SURVEY   | AGREE                        | UN-DECIDED                  | DIS-AGREE | PAGE TOTAL | 6168.55 |
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?                               |                              |                             |           |            |         |
| WE UNDERSTOOD AND MET YOUR NEEDS?  |                              |                             |           |            |         |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?                                 |                              |                             |           |            |         |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? |                              |                             |           |            |         |
| ARE YOU SATISFIED WITH OUR SERVICE?                                      | <input type="checkbox"/> YES | <input type="checkbox"/> NO |           |            |         |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND                |                              |                             |           | TOTAL      | 6476.31 |

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Alan Luman

APPROVAL \_\_\_\_\_

Thank You!

**JOB LOG**

**SWIFT Services, Inc.**

DATE 9-13-12 PAGE NO. 1

CUSTOMER Carson Schmitt WELL NO. #17 LEASE Ney Unit JOB TYPE Cement Port Collar TICKET NO. 22830

| CHART NO. | TIME           | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI)         |                         | DESCRIPTION OF OPERATION AND MATERIALS  |
|-----------|----------------|------------|--------------------|-------|---|------------------------|-------------------------|---|
|           |                |            |                    | T     | C | TUBING                 | CASING                  |   |
|           | 09:30          |            |                    |       |   | 2 7/8                  | 5 1/2                   | On location with P.C tool<br>P.C @ 1530 = 8.8 Tbs 47 BBL <sup>part</sup> <sub>cost 15.00</sub>                |
|           | 11:00<br>12:15 |            |                    |       |   | <del>800</del><br>1000 | <del>1000</del><br>1000 | Setup Tbs<br>Tst P.C closed - <del>blow out</del> Rubber 800*   |
|           |                | 3          | 3                  |       |   | C                      | 300                     | Open P.C - Initial<br>Hole to 2 7/8" Tbs  |
|           |                | 3          | 3                  |       |   |                        | 250                     | Start Had Ahead 3 BBL Have Returns<br>Start SMD cut.  |
|           |                |            | 95                 |       |   |                        |                         | Cut CIR @ 170 STS @ 11.2#/gal   |
|           |                |            | 10                 |       |   |                        |                         | Mix 30 STS @ 13#/gal  |
|           |                |            | 7                  |       |   |                        |                         | Fin cut - Displ 7 BBL Had   |
|           |                |            |                    |       |   | 1000                   | 1000                    | Close in Tbs - Tst P.C closed<br>Run 5 STS Tbs<br>Run-out - 2 flags clean<br>Job complete<br>Wash up & Packup |
|           | 14:00          |            |                    |       |   |                        |                         | <i>[Signature]</i><br>A. J. Brown<br>J. Tol   |
|           |                |            |                    |       |   |                        |                         | 170 STS @ 11.2#/gal to CIR.<br>30 STS @ 13#/gal - Tail end<br>200 STS Total cut used                          |



**QUALITY OILWELL CEMENTING, INC.**

PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 8/27/2012  
 Invoice # 838

P.O.#:  
 Due Date: 9/26/2012  
 Division: Russell

# Invoice

**Contact:**  
 Carmen Schmitt Inc  
**Address/Job Location:**  
 Carmen Schmitt Inc  
 P.O. Box 47  
 Great Bend Ks 67530

**Reference:**  
 NEY UNIT 7

**Description of Work:**  
 LONG SURFACE JOB

12910.0007

710/43

Cement surface csg  
 with fine

| Services / Items Included:                   | Quantity | Price       | Taxable |
|--|----------|-------------|---------|
| Labor  |          | \$ 991.39   | No      |
| Common-Class A                               | 250      | \$ 3,311.43 | Yes     |
| Bulk Truck Matl-Material Service Charge      | 264      | \$ 573.26   | No      |
| Calcium Chloride                             | 9        | \$ 465.71   | Yes     |
| Pump Truck Mileage-Job to Nearest Camp       | 22       | \$ 238.38   | No      |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 22       | \$ 139.49   | No      |
| 8 5/8" Top Rubber Plug                       | 1        | \$ 115.09   | Yes     |
| Premium Gel (Bantomite)                      | 5        | \$ 88.38    | Yes     |

| Item | Quantity | Price | Taxable |
|------|----------|-------|---------|
|------|----------|-------|---------|

**Invoice Terms:**

Net 30

SubTotal: \$ 5,923.11

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (888.47)

SubTotal for Taxable Items: \$ 3,383.51

SubTotal for Non-Taxable Items: \$ 1,651.14

Total: \$ 5,034.65

Tax: \$ 280.83

8.30% Russell County Sales Tax

Amount Due: \$ 5,315.48

Applied Payments:

Balance Due: \$ 5,315.48

**Thank You For Your Business!**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
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# QUALITY OILWELL CEMENTING, INC.

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

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

No. 838

| Date                                   | Sec.                   | Twp.  | Range  | County   | State  | On Location | Finish   |
|--|------------------------|---|--|--|--------|-------------|----------|
| 8-24-12                                | 32                     | 15  | 12   | RUSSELL  | KANSAS |             | 10:45 AM |
| Lease <u>NEY UNIT</u>                  | Well No. <u>#7</u>     | Location <u>Russell S to Michael Rd 9 E</u> |  |  |        |             |          |
| Contractor <u>MALLARD</u>              |                        |   |  | Owner <u>CARMEN SCHMITT</u> <u>3/4 S WIND</u>  |        |             |          |
| Type Job <u>SURFACE</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>12 1/4</u>                | T.D. <u>572'</u>       |   | Charge To <u>CARMEN SCHMITT</u>  |  |        |             |          |
| Csg. <u>8 5/8</u>                      | Depth <u>572'</u>      |   | Street <u>PO BOX 47</u>  |  |        |             |          |
| Tbg. Size                              | Depth                  |   | City <u>GREATBEND</u> State <u>KS</u> , <u>67530</u>                             |  |        |             |          |
| Tool                                   | Depth                  |   | The above was done to satisfaction and supervision of owner agent or contractor. |  |        |             |          |
| Cement Left in Csg.                    | Shoe Joint <u>90'</u>  |   | Cement Amount Ordered <u>250 com - 3cc - 2 gel</u>                               |  |        |             |          |
| Meas Line                              | Displace <u>35 BLS</u> |   |  |  |        |             |          |
| EQUIPMENT                              |                        |   |  |  |        |             |          |
| Pumptrk <u>#9</u> No.                  | Cementer <u>DAVE</u>   | Helper                                      |  | Common <u>250</u>  |        |             |          |
| Bulktrk <u>#14</u> No.                 | Driver <u>CODY</u>     | Driver                                      |  | Poz. Mix   |        |             |          |
| Bulktrk <u>DU</u> No.                  | Driver <u>CESCO</u>    | Driver                                      |  | Gel. <u>5</u>  |        |             |          |
| JOB SERVICES & REMARKS                 |                        |   |  | Calcium <u>9</u>   |        |             |          |
| Remarks:                               |                        |   |  | Hulls  |        |             |          |
| Rat Hole                               |                        |   |  | Salt   |        |             |          |
| Mouse Hole                             |                        |   |  | Flowseal   |        |             |          |
| Centralizers                           |                        |   |  | Kol-Seal   |        |             |          |
| Baskets                                |                        |   |  | Mud CLR 48   |        |             |          |
| D/V or Port Collar                     |                        |   |  | CFL-117 or CD110 CAF 38  |        |             |          |
| <u>CEMENT DID NOT CIRCULATE</u>        |                        |   |  | Sand   |        |             |          |
|  |                        |   |  | Handling <u>264</u>  |        |             |          |
|  |                        |   |  | Mileage  |        |             |          |
| <u>HEAD &amp; MANIFOLD ON LOCATION</u> |                        |   |  | FLOAT EQUIPMENT  |        |             |          |
|  |                        |   |  | Guide Shoe   |        |             |          |
|  |                        |   |  | Centralizer  |        |             |          |
|  |                        |   |  | Baskets  |        |             |          |
|  |                        |   |  | AFU Inserts  |        |             |          |
|  |                        |   |  | Float Shoe   |        |             |          |
|  |                        |   |  | Latch Down   |        |             |          |
|  |                        |   |  | Pumptrk Charge <u>Long Surface</u>   |        |             |          |
|  |                        |   |  | Mileage <u>22</u>  |        |             |          |
| <u>THANK YOU!</u>                      |                        |   |  | Tax  |        |             |          |
|  |                        |   |  | Discount   |        |             |          |
| X Signature <u>Mel O'Chen</u>          |                        |   |  | Total Charge   |        |             |          |