## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test  |                    | 1  | ØSI  |   | '   | See msnuci                           | ions on me                       | V6136 Q100   | ,  |   |  |                   |   |
|--|--------------------|--|--|---|---|--------------------------------------|----------------------------------|--|--|---|--|-------------------|---|
|  | en Flo<br>Ilverab  |  |  |   | Test Date<br>9/22/11                        | <b>э</b> :                           |                                  |  |  | No. 15<br>1-20414-00                                      | -00                                    |                   |   |
| Company  |                    | sou  | rces, Inc.   |   |   |                                      | Lease<br>Duell                   |  |  |   | 41-29                                  | Well Nu           | ımber   |
| •  |                    |  |  | Section<br>29   |   |                                      |                                  | RNG (E.<br>39W   | W)   |   | Acres Attributed<br>80                 |                   |   |
|  |                    |  |  |   |   | Reservoir<br>Niobrara                |                                  |  | Gas Gathering Connection Branch Systems Inc. |   |  |                   |   |
|  |                    |  |  | Plug Bac<br>1225'   | k Total Dept                                | h                                    |                                  | Packer \$  | Set at                                       |   |  |                   |   |
| Casing S<br>4 3/4"   |                    |  |  | Internal Diameter Set at 4.000 1225'  |   |                                      | Perfo<br>104                     | rations<br>2'  | то<br>1072'                                  |   |  |                   |   |
| Tubing Si  | Tubing Size Weight |  |  | Internal [  | Internal Diameter Set at                    |                                      |                                  | Perfo  | rations                                      | То  |  |                   |   |
| Type Con<br>Single (   |                    |  |  |   |   | Type Fluid Production Dry Gas        |                                  |  | Pump Ui<br>flowing                           |   | Plunger? Yes                           |                   | ,   |
| Annulus  | 3                  |  | nulus / Tubing                                     | g)  | % C   |                                      |                                  |  |  | jen   | .6                                     |                   |   |
| Vertical D<br>1230'  | epth()             | 1)   |  |   |   | Pressure Taps<br>Flange              |                                  |  |  |   | (Meter<br>2"                           | Run) (P           | Prover) Size  |
| Pressure   | Buildu             | •  |  | 12  |   |                                      | (PM)                             |  |  |   | 11 <sub>at</sub> 11:05                 | (                 | (PM)  |
| Well on L  | ine:               |  | Started 9-2  | 2 29  | 0 <u>11</u> at <u>1</u>                     | 1:05                                 | (AM)(PM)                         | Taken 9-   | 23   | 20  | 11 at 11:50                            | (                 | (PM)  |
|  |                    |  |  |   |   | OBSERVE                              | D SURFAC                         | E DATA   |  |   | Duration of Shut-                      | <sub>in _24</sub> | Hours   |
| Static /<br>Dynamic<br>Property                                      | Dynamic Size       |  | Circle one:<br>Mater<br>Prover Pressu<br>psig (Pm) | Meter Differential T  |   | Flowing Well Head<br>femperature t 1 |                                  | Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia |  | Tubing ad Pressure (P <sub>1</sub> ) or (P <sub>2</sub> ) | Duration<br>(Hours)                    |                   | id Produced<br>(Barrels)                            |
| Shut-In  |                    |  |  |   |   |                                      | 11                               | 25.4   | psig   |   |  |                   |   |
| Flow   |                    |  |  |   |   |                                      | 8                                | 22.4   |  |   | 24                                     |                   |   |
|  |                    |  |  |   |   | FLOW STR                             | EAM ATTR                         | IBUTES   |  |   |  |                   |   |
| Plate<br>Coefficcient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mctd |                    | Circle one:<br>Meter or<br>Prover Pressure<br>psla |  | Press<br>Extension  | Gravity<br>Factor<br>F <sub>q</sub>         |                                      | Flowing<br>Temperature<br>Factor | Fa   | iation<br>ctor                               | Metered Flov<br>Fl<br>(Mcfd)                              | GOR<br>(Cubic Fe<br>Barrol)            | et/               | Flowing<br>Fluid<br>Gravity<br>G_                   |
|  |                    |  |  |   | <u> </u>                                    |                                      |                                  |  |  | 29  |  |                   | <u> </u>  |
| (P <sub>c</sub> ) <sup>2</sup> =                                     |                    |  | (P_)² =  |   | (OPEN FL                                    | OW) (DELIV                           |                                  | ) CALCUL<br><sup>2</sup> - 14.4) +   |  |   | (P <sub>s</sub> )<br>(P <sub>d</sub> ) | 2 = 0.2           | 207   |
| (P <sub>e</sub> ) <sup>2</sup> - (I                                  |                    | (F   | ( , , ) -<br>(P,)2 - (P,)2                         | Choose formula 1 or 2:  1. P <sub>c</sub> <sup>2</sup> - P <sub>c</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> | LOG of<br>formula<br>1. or 2.<br>and divide |                                      | Backpre<br>Sloj<br>As            | ssure Curve pe = "n" - or signed ard Slope   |  | LOG !   | Antilog                                | O<br>De<br>Equal  | pen Flow<br>liverability<br>s R x Antilog<br>(Mcfd) |
|  |                    |  |  |   |   |                                      | ļ                                |  |  |   |  |                   |   |
| Open Flo   | w                  |  |  | Mcfd @ 14.  | 65 psla                                     |                                      | Deliverab                        | ility  |  |   | Mcfd @ 14.65 ps                        | la                | ,   |
|  |                    |  |  | n behalf of the   |   |                                      | -                                |  |  |   | rt and that he ha                      |                   | viedge of 20 11 .                                   |
|  |                    |  | Witness (  | f any)  |   |                                      | -                                |  | - C  | For   | Company                                |                   | <u> </u>  |
|  |                    |  | For Comm   | nission   |   |                                      | -                                |  |  | Che   | ked by                                 |                   |   |

| exempt status that the focorrect to the bof equipment in | inder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.  regoing pressure information and statements contained on this application form are true and lest of my knowledge and belief based upon available production summaries and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named. Quest a one-year exemption from open flow testing for the Duell 41-29 |
|--|--|
|  | grounds that said well:  |
| I further ag   | is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No. is not capable of producing at a daily rate in excess of 250 mcf/D ree to supply to the best of my ability any and all supporting documents deemed by Commission ary to corroborate this claim for exemption from testing.   |
|  | Signature:   |

Instructions:

If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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**KCC WICHITA** 

W2225
Duell 41-29
North Goodland
Goodland
None
September-11

|           | Casing |        |      | HRS  | REMARKS                         |
|-----------|--------|--------|------|------|---------------------------------|
| DATE      | PSI    | STATIC | MCF  | DOWN | (Maximum length 110 characters) |
| 9/1/2011  | 10     | 23     | 26   | 0    |                                 |
| 9/2/2011  | 10     | 23     | 11   | 12   |                                 |
| 9/3/2011  | 11     | 24     | 29   | 0    |                                 |
| 9/4/2011  | 10     | 23     | 30   | 0    |                                 |
| 9/5/2011  | 10     | 23     | 29   | 0    |                                 |
| 9/6/2011  | 10     | 23     | 30   | 0    |                                 |
| 9/7/2011  | 9      | 22     | 30   | 0    |                                 |
| 9/8/2011  | 8      | 21     | 34   | 0    |                                 |
| 9/9/2011  | 8      | 21     | 29   | 0    |                                 |
| 9/10/2011 | 9      | 22     | . 29 | 0    |                                 |
| 9/11/2011 | 9      | 22     | . 29 | 0    |                                 |
| 9/12/2011 | 8      | 21     | 29   | 0    |                                 |
| 9/13/2011 | 8      | 21     | 29   | 0    |                                 |
| 9/14/2011 | 8      | 21     | 29   | 0    |                                 |
| 9/15/2011 | 8      | 21     | 29   | 0    | cal                             |
| 9/16/2011 | 8      | 21     | 22   | 0    |                                 |
| 9/17/2011 | 8      | 21     | 29   | 0    |                                 |
| 9/18/2011 | 8      | 21     | 29   | 0    |                                 |
| 9/19/2011 | 8      | 21     | 28   | 0    |                                 |
| 9/20/2011 | 8      | 21     | 28   | 0    |                                 |
| 9/21/2011 | 8      | 21     | 30   | 0    | shut in                         |
| 9/22/2011 | 8      | 21     | 0    | 24   | opened up                       |
| 9/23/2011 | 11     | 24     | 25   | 2.5  |                                 |
| 9/24/2011 | 10     | 23     | 19   | 15   |                                 |
| 9/25/2011 | 11     | 24     | 31   | 0    |                                 |
| 9/26/2011 | 10     | 23     | 29   | 0    |                                 |
| 9/27/2011 | 10     | 23     | 27   | 2    |                                 |
| 9/28/2011 | 9      | 22     | . 31 | 0    |                                 |
| 9/29/2011 | 9      | 22     | 28   | 0    |                                 |
| 9/30/2011 | 9      | 22     | 28   | 2.5  |                                 |
| 10/1/2011 | 0      | 0      | 0    | 0    |                                 |

Total 806

W2225
Duell 41-29
North Goodland
Goodland
None
October-11

|            | Casing |        |     | HRS  |   | REMARKS                         |
|------------|--------|--------|-----|------|---|---------------------------------|
| DATE       | PSI    | STATIC | MCF | DOWN |   | (Maximum length 110 characters) |
| 10/1/2011  |        | 9      | 22  | 32   | 0 |                                 |
| 10/2/2011  |        | 8      | 21  | 31   | 0 |                                 |
| 10/3/2011  |        | 8      | 21  | 30   | 0 |                                 |
| 10/4/2011  |        | 8      | 21  | 29   | 0 |                                 |
| 10/5/2011  |        | 8      | 21  | 29   | 0 |                                 |
| 10/6/2011  |        | 8      | 21  | 29   | 0 |                                 |
| 10/7/2011  |        | 8      | 21  | 29   | 0 |                                 |
| 10/8/2011  |        | 8      | 21  | 29   | 0 |                                 |
| 10/9/2011  |        | 8      | 21  | 30   | 0 |                                 |
| 10/10/2011 |        | 8      | 21  | 30   | 0 |                                 |
| 10/11/2011 |        | 8      | 21  | 29   | 0 |                                 |
| 10/12/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/13/2011 |        | 7      | 20  | 30   | 0 |                                 |
| 10/14/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/15/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/16/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/17/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/18/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/19/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/20/2011 |        | 7      | 20  | 30   | 0 |                                 |
| 10/21/2011 |        | 7      | 20  | 26   | 2 |                                 |
| 10/22/2011 |        | 8      | 21  | 29   | 0 |                                 |
| 10/23/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/24/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 10/25/2011 |        | 8      | 21  | 23   | 2 |                                 |
| 10/26/2011 |        | 8      | 21  | 29   | 0 |                                 |
| 10/27/2011 |        | 8      | 21  | 29   | 0 |                                 |
| 10/28/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/29/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 10/30/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 10/31/2011 |        | 7      | 20  | 29   | 0 |                                 |

Total 898

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KCC WICHITA

W2225
Duell 41-29
North Goodland
Goodland
None
November-11

|            | Casing |        |     | HRS  |   | REMARKS                         |
|------------|--------|--------|-----|------|---|---------------------------------|
| DATE       | PSI    | STATIC | MCF | DOWN |   | (Maximum length 110 characters) |
| 11/1/2011  |        | 7      | 20  | 28   | 0 |                                 |
| 11/2/2011  |        | 7      | 20  | 28   | 0 |                                 |
| 11/3/2011  |        | 7      | 20  | 28   | 0 |                                 |
| 11/4/2011  |        | 7      | 20  | 29   | 0 |                                 |
| 11/5/2011  |        | 7      | 20  | 28   | 0 |                                 |
| 11/6/2011  |        | 7      | 20  | 28   | 0 |                                 |
| 11/7/2011  |        | 7      | 20  | 29   | 0 |                                 |
| 11/8/2011  |        | 7      | 20  | 28   | 0 | bp                              |
| 11/9/2011  |        | 7      | 20  | 29   | 0 |                                 |
| 11/10/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 11/11/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/12/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/13/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/14/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/15/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/16/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/17/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 11/18/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/19/2011 |        | 7      | 20  | 27   | 0 |                                 |
| 11/20/2011 |        | 7      | 20  | 27   | 0 |                                 |
| 11/21/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/22/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/23/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/24/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/25/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/26/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/27/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/28/2011 |        | 7      | 20  | 29   | 0 |                                 |
| 11/29/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 11/30/2011 |        | 7      | 20  | 28   | 0 |                                 |
| 12/1/2011  |        | 0      | 0   | 0    | 0 |                                 |

Total 844