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

| Type Test   | t:                            | -   |   | (-                                 | See Instruct   | ions on Rev                            | rerse Side   | )                           |  |                               |                                |   |   |  |
|---|-------------------------------|---|---|------------------------------------|--|--|--|-----------------------------|--|-------------------------------|--------------------------------|---|---|--|
| Op  | en Flow                       | ROT   |   | Test Date                          | :  |  |  | API                         | No. 15   |                               |                                |   |   |  |
| De  | liverabilty                   | <u> </u>  |   | 6/22/14                            |  |  |  | 023                         | 3-20613-00 <b>[</b>  | 10                            |                                |   |   |  |
| Company<br>Rosewoo  |                               | urces, Inc.   |   |                                    |  | Lease<br>Willard                       |  |                             |  |                               | 1-26                           | Vell Nun                                      | nber  |  |
| County Location Cheyenne NW NE/4  |                               |   | Section<br>26   |                                    |  |  |  | RNG (E/W)<br>41W            |  |                               | Acres Attributed 80            |   |   |  |
| Field<br>Cherry C   | Creek                         |   |   | Reservoir<br>Niobrara              |  | -                                      |  |                             | hering Conn<br>Systems In  |                               |                                |   |   |  |
| Completic<br>5/27/200   |                               |   | •   | Plug Bac<br>1506'                  | k Total Dept   | h                                      |  | Packer \$                   | Set at   |                               | _                              |   |   |  |
| Casing Size Weight I  |                               |   | Internal D<br>4.052   |                                    |  |  | Set at Perforation 1506' 1294'                         |                             | ons To<br>1328'  |                               | 3'                             |   |   |  |
| Tubing Si   | ize                           | Weigh   |   | Internal E                         | Diameter   | Set a                                  | it   | Perfo                       | rations  |                               | То                             | -   |   |  |
| Type Con  |                               |   | _   | Type Flui                          | d Production   | 1                                      |  |                             | nit or Traveling   | Plunger                       | ? (Yes)                        | / No  |   |  |
|   | g Thru (A                     | nnulus / Tubing   | )   |                                    | arbon Dioxi  | de                                     |  | % Nitrog                    |  | _                             | Gas Gra                        | vity - G                                      |   |  |
| Vertical D  |                               |   |   |                                    | Pres   | sure Taps                              |  |                             | <u>_</u> _   |                               |                                | un) (Pro                                      | over) Size                                    |  |
| 1328'   |                               |   |   |                                    | Flan   | ge                                     |  |                             |  | _                             | 2"                             |   |   |  |
| Pressure  | Buildup:                      | Shut in 6-7   | 2   | 0 14 at 8                          | :20  | (PM)                                   | Taken_6-   | 8                           | 20   | 14 at_                        | 8:35                           | (   | (M9)  |  |
| Well on L   | .ine:                         | Started 6-22  | 2 2   | 0 14 at 8:                         | :35  | (AM)(PM)                               | Taken 6-   | 23                          | 20   | <u>14</u> at _                | 9:20                           | @   | (MP)  |  |
|   |                               |   |   |                                    | OBSERVE  | D SURFACE                              |  |                             |  | Duration                      | of Shut-i                      | 360   | Hours   |  |
| Static /<br>Dynamic<br>Property   | Orifice<br>Size<br>(inches)   | Prover Pressure   In  |   | Flowing<br>Temperature<br>t        | emperature Temperature                                   |  | Casing Wellhead Pressure $(P_w)$ or $(P_1)$ or $(P_c)$ |                             | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) |                               | Duration<br>(Houts)            |   | Liquid Produced<br>(Barrels)                  |  |
| Shut-In   |                               | psig (Pm)   | Inches H <sub>2</sub> 0   |                                    |  | psig 234                               | psia<br>248.4  | psig                        | psia   |                               |                                |   |   |  |
| Flow  |                               |   |   | _                                  | _  | 57                                     | 71.4   |                             |  | 24                            |                                |   |   |  |
|   |                               |   |   | <u> </u>                           | FLOW STR   | EAM ATTR                               | IBUTES   |                             |  |                               |                                |   |   |  |
| Coefficient Meter or Extens   |                               | Press<br>Extension<br>✓ P <sub>m</sub> x h                      | Fact  | Gravity Factor F <sub>g</sub>      |  | Deviation<br>Factor<br>F <sub>pv</sub> |  | Metered Flor<br>R<br>(Mcfd) |  | GOR<br>(Cubic Feet<br>Barrel) |                                | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub> |   |  |
|   |                               |   |   |                                    |  |  |  | _                           | 40   |                               |                                |   |   |  |
|   |                               |   |   | (OPEN FL                           | OW) (DELIV   | ERABILITY                              | CALCUL   | ATIONS                      |  | •                             | (Р <sub>а</sub> )²             | = 0.20  | <br>)7  |  |
| (P <sub>c</sub> ) <sup>2</sup> =  | :                             | (P <sub>w</sub> ) <sup>2</sup> =                                | Choose formula 1 or 2   | P <sub>d</sub> =                   |  | % (F                                   | <u>-</u> 14.4) +                                       | 14.4 = _                    | _ <del></del> :_   | <del>-</del>                  | (P <sub>d</sub> ) <sup>2</sup> | <u></u>                                       |   |  |
| (P <sub>c</sub> ) <sup>2</sup> - (<br>or<br>(P <sub>c</sub> ) <sup>2</sup> - (l | P <sub>a</sub> ) <sup>2</sup> | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | 1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> | LOG of formula 1, or 2. and divide | P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> | Slop<br>As:                            | ssure Curve<br>De = "n"<br>Dor<br>signed               | n x                         | roe  | Anti                          | ilog                           | Delly<br>Equals                               | en Flow<br>/erability<br>R x Antilog<br>Mcfd) |  |
|   |                               | -   | divided by: $P_c^2 - P_w$   | 2 by:                              | <u> </u>   | Stand                                  | ard Slope  | <del>  -</del>              |  |                               |                                |   |   |  |
|   | _                             |   | <del></del> _   |                                    | <u> </u>   |  | <u></u>  |                             |  |                               |                                | _   |   |  |
| Open Flo  | w                             |   | Mcfd @ 14.  | .65 psia                           |  | Deliverab                              | ility  |                             |  | Mcfd @                        | 14.65 psi                      | a   |   |  |
|   | _                             | ed authority, or  |   |                                    |  |  |  |                             |  | ort and th                    | at he ha                       | s knowl                                       | edge of                                       |  |
| the facts s   | stated the                    | rein, and that sa   | id report is true   | and correc                         | t. Executed  | this the 12                            |  | day of _                    | December   | . A                           | n . 1                          | ر بر عرب الم                                  | 20 .14 .                                      |  |
|   |                               | Williage (  | (anv)   | — <del></del>                      | Rec  | ceived                                 | SSION  | M                           | WULL FOR   | JU/<br>Company                | ate                            | wy  | <u>/</u>                                      |  |
|   |                               | Witness (i  | auy)  |                                    |  |  | •  |                             |  |                               |                                |   |   |  |
|   |                               | For Comm  | ission  |                                    | FCD /  | 2 5 2015                               |  | ·                           | Che  | ecked by                      |                                |   |   |  |

| exempt status under Rule K.A.R. 82-3-304 and that the foregoing pressure informat correct to the best of my knowledge and b of equipment installation and/or upon type I hereby request a one-year exemption | nder the laws of the state of Kansas that I am authorized to request 4 on behalf of the operator Rosewood Resources, Inc.  tion and statements contained on this application form are true and pelief based upon available production summaries and lease records a of completion or upon use being made of the gas well herein named. On from open flow testing for the Willard 1-26 |
|--|---|
| gas well on the grounds that said well:  |   |
| is on vacuum at the production is not capable of productions.  | ft due to water gas for injection into an oil reservoir undergoing ER esent time; KCC approval Docket No ucing at a daily rate in excess of 250 mcf/D of my ability any and all supporting documents deemed by Commission   |
| Date: 12/12/14   |   |
| Received  KANSAS CORPORATION COMMISSION  FEB 2 5 2015  CONSERVATION DIVISION  WICHITA, KS  | 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.

W378
Willard 01-26
St. Francis
St. Francis
None
June-134

|                   | Casing |         |     |    | HRS  | REMARKS                         |
|-------------------|--------|---------|-----|----|------|---------------------------------|
| DATE              | PSI    | STATIC_ | MCF |    | DOWN | (Maximum length 110 characters) |
| 6/1/20134         | 58     | 71      |     | 44 | 0    |                                 |
| 6/2/2013          | 65     | 78      | ,   | 41 | 0    |                                 |
| 6/3/201           | 65     | 78      |     | 40 | 0    | turn on pumping unit            |
| 6/4/2013          | 85     | 96      |     | 41 | 0    |                                 |
| 6/5/2013          | 54     | 67      |     | 40 | 0    |                                 |
| 6/6/2013          | 55     | 68      |     | 41 | 0    | turn off pumping unit           |
| 6/7/2013          | 139    | 152     |     | 26 | 9    |                                 |
| 6/8/201           | 145    | 158     |     | 26 | 24   |                                 |
| 6/9/2013          | 147    | 160     |     | 0  | 24   |                                 |
| 6/10/201 <b>8</b> | 152    | 165     |     | 0  | 24   |                                 |
| 6/11/2013         | 155    | 168     |     | 0  | 24   |                                 |
| 6/12/201          | 155    | 168     |     | 0  | 24   |                                 |
| 6/13/2013         | 159    | 169     |     | 0  | 24   |                                 |
| 6/14/201 <b>5</b> | 160    | 173     |     | 0  | 24   |                                 |
| 6/15/2018         | 161    | 174     |     | 0  | 24   |                                 |
| 6/16/201          | 233    | 246     |     | 0  | 24   |                                 |
| 6/17/201\$        | 233    | 246     |     | 0  | 24   |                                 |
| 6/18/2013         | 233    | 246     |     | 0  | 24   |                                 |
| 6/19/2013         | 234    | 247     |     | 0  | 24   |                                 |
| 6/20/2013         | 234    | 247     |     | 0  | 24   |                                 |
| 6/21/201\$        | 234    | 247     |     | 0  | 24   |                                 |
| 6/22/2013         | 234    | 247     |     | 0  | 24   |                                 |
| 6/23/2013         | 126    | 139     |     | 49 | 5    |                                 |
| 6/24/2013         | 117    | 130     |     | 66 | 0    |                                 |
| 6/25/2013         | 93     | 106     | ,   | 41 | 0    |                                 |
| 6/26/2018         | 75     | 88      |     | 40 | 0    |                                 |
| 6/27/201β         | 87     | 100     |     | 40 | 0    |                                 |
| 6/28/2013         | 61     | 74      |     | 39 | 0    | started pumping unit            |
| 6/29/2013         | 59     | 72      |     | 41 | 0    |                                 |
| 6/30/2013         | 59     | 72      |     | 46 | 0    |                                 |
| 7/1/2013          |        |         |     |    | 0    |                                 |

Total 661

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CONSERVATION DIVISION WICHITA, KS

W378 Willard 01-26 St. Francis St. Francis None July-14

|           | Casing |            | H  | RS W   | ater | REMARKS                         |
|-----------|--------|------------|----|--------|------|---------------------------------|
| DATE      | PSI    | STATIC MCF | DC | DWN BI | BLS  | (Maximum length 110 characters) |
| 7/1/2014  | 59     | 72         | 45 | 0      | 31   |                                 |
| 7/2/2014  | 58     | 71         | 45 | 0      | 32   |                                 |
| 7/3/2014  | 59     | 72         | 45 | 0      | 33   |                                 |
| 7/4/2014  | 59     | 72         | 45 | 0      | 32   |                                 |
| 7/5/2014  | 62     | 75         | 45 | 0      | 31   |                                 |
| 7/6/2014  | 62     | 75         | 45 | 0      | 32   |                                 |
| 7/7/2014  | 76     | 89         | 44 | 0      | 33   |                                 |
| 7/8/2014  | 62     | <b>7</b> 5 | 44 | 0      | 32   |                                 |
| 7/9/2014  | 62     | 75         | 44 | 0      | 31   |                                 |
| 7/10/2014 | 63     | 76         | 44 | 0      | 32   |                                 |
| 7/11/2014 | 64     | 77         | 43 | 0      | 33   |                                 |
| 7/12/2014 | 66     | 79         | 43 | 0      | 32   |                                 |
| 7/13/2014 | 67     | 80         | 44 | 0      | 31   |                                 |
| 7/14/2014 | 72     | 85         | 43 | 0      | 32   |                                 |
| 7/15/2014 | 57     | 70         | 43 | 0      | 33   |                                 |
| 7/16/2014 | 57     | 70         | 43 | 0      | 31   |                                 |
| 7/17/2014 | 62     | 75         | 43 | 0      | 32   |                                 |
| 7/18/2014 | 59     | 72         | 43 | 0      | 33   |                                 |
| 7/19/2014 | 59     | 72         | 43 | 0      | 31   |                                 |
| 7/20/2014 | 60     | 73         | 43 | 0      | 32   |                                 |
| 7/21/2014 | 99     | 112        | 40 | 0      | 31   |                                 |
| 7/22/2014 | 143    | 156        | 4  | 22     | 31   |                                 |
| 7/23/2014 | 90     | 103        | 37 | 7      | 32   |                                 |
| 7/24/2014 | 65     | 78         | 42 | 3      | 4    |                                 |
| 7/25/2014 | 57     | 70         | 39 | 4      | 8 :  | started pumping unit            |
| 7/26/2014 | 55     | 68         | 40 | 0      | 32   |                                 |
| 7/27/2014 | 55     | 68         | 40 | 0      | 33   |                                 |
| 7/28/2014 | 58     | 71         | 40 | 0      | 31   |                                 |
| 7/29/2014 | 62     | 75         | 40 | 0      | 32   |                                 |
| 7/30/2014 | 57     | 70         | 40 | 0      | 33   |                                 |
| 7/31/2014 | 61     | 74         | 40 | 0      | 31   |                                 |

Total 1279 937

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CONSERVATION DIVISION WICHITA, KS

W378 Willard 01-26 St. Francis St. Francis None August-14

| _         | Casing |        |      | · · · · · · · · · · · · · · · · · · · |       | HRS  | Water    |     |
|-----------|--------|--------|------|---------------------------------------|-------|------|----------|-----|
| DATE      | PSI    | STATIC | MCF  | SPM                                   | CYCLE | DOWN | BBLS     |     |
| 8/1/2014  | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/2/2014  | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/3/2014  | 56     | 69     | 40   | 5.5                                   | 12    | (    | 0        | 20  |
| 8/4/2014  | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/5/2014  | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/6/2014  | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/7/2014  | 57     | 71     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/8/2014  | 60     | 73     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/9/2014  | 61     | 74     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/10/2014 | 62     | 75     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/11/2014 | 58     | 71     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/12/2014 | 56     | 69     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/13/2014 | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/14/2014 | 56     | 69     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/15/2014 | 63     | 76     | 39   | 5.5                                   | 12    | 3    | 3        | 20  |
| 8/16/2014 | 61     | 74     | 39   | 5.5                                   | 12    | (    | )        | 20  |
| 8/17/2014 | 61     | 74     | 39   | 5.5                                   | 12    | (    | )        | 20  |
| 8/18/2014 | 61     | 74     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/19/2014 | 65     | 78     | 39   | 5.5                                   | 12    | 2    | 2        | 20  |
| 8/20/2014 | 65     | 78     | 39   | 5.5                                   | 12    | (    | )        | 20  |
| 8/21/2014 | 60     | 73     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/22/2014 | 66     | 79     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/23/2014 | 57     | 70     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/24/2014 | 59     | 72     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/25/2014 | 72     | 85     | 40   | 5.5                                   | 12    | (    | )        | 20  |
| 8/26/2014 | 60     | 73     | 41   |                                       | 12    |      | )        | 20  |
| 8/27/2014 | 61     | 74     | 40   | 5.5                                   | 12    |      | )        | 20  |
| 8/28/2014 | 61     | 74     | 41   |                                       |       |      | )        | 10  |
| 8/29/2014 | 56     | 69     | 35   |                                       | 12    |      | 5        | 10  |
| 8/30/2014 | 56     |        | 35   |                                       |       |      | )        | 20  |
| 8/31/2014 | 69     | 82     | 400  | 5.5                                   | 12    |      | <u>)</u> | 20  |
| Total     |        |        | 1587 |                                       |       |      |          | 600 |

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