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

| Type Test  | t:                                    |   |                                  |   |                          | (   | See Insti  | ructions on R                                       | everse Side   | e)                                |   |  |   |   |  |
|--|---------------------------------------|---|----------------------------------|---|--------------------------|---|--|---|---|-----------------------------------|---|--|---|---|--|
| Ор   | en Flo                                | w   |                                  |   |                          | Took Date                                   |  |   |   | A F2                              | I No. 15  |  |   |   |  |
| Deliverabilty  |                                       |   |                                  |   | Test Date:<br>12-23-2013 |   |  |   | 15-   | l No. 15<br>- <b>123</b> -20,220- | 00-01   |  |   |   |  |
| Company Rama Operating Co., Inc                                      |                                       |   |                                  |   |                          |   | Lease Cumm   |   | 047   |                                   |   | Well Number<br>2-X   |   |   |  |
| County Locati<br>Edwards S/2 NE                                      |                                       |   |                                  |   |                          |   |  | TWP<br>24   |   | RNG (E/W)<br>16w                  |   |  | Acres Attributed<br>160                                     |   |  |
| Field<br>Bradbridge  |                                       |   |                                  | r   | Reservoir<br>Chase       | r   |  |   | Gas Gar<br>Lumen  | thering Conn                      | ection  |  |   |   |  |
| Completion Date  |                                       |   |                                  | Plug Bac  | k Total D                | epth  | Packer Se<br>-   |   | Set at  |                                   |   |  |   |   |  |
| Casing S   |                                       |   |                                  | ht  |                          | Internal Diameter                           |  |   | Set at <b>2221</b>  |                                   | orations<br>0   | то<br>2075   | то<br>2075  |   |  |
| Tubing Size  |                                       |   | Weight                           |   |                          | Internal Diameter                           |  |   | Set at 2080   |                                   | orations  | То   | То  |   |  |
| Type Completion (Describe) Single (Gas)                              |                                       |   |                                  |   | Type Flui<br>water       | d Produc                                    |  |   | Pump Unit or Traveling Plumping                           |                                   | Plunger? Yes  | Plunger? Yes / No  |   |   |  |
| Producing  | <b>3</b> Thru                         | ı (Anı  | (Annulus / Tubing)               |   |                          | % C   | Carbon Di  | ioxide  | <u>.</u>  |                                   |   |  | as Gravity - G <sub>g</sub>                                 |   |  |
| /ertical Depth(H)  |                                       |   |                                  |   | Pressure Taps            |   |  |   |   |                                   | (Meter F  | Run) (P  | rover) Size   |   |  |
| ressure  | Buildu                                | ıp:   | Shut in                          | 2-23  | 3 2                      | 0_13 at                                     |  | (AM) (PM  | ) Taken   |                                   |   | at   |   | (AM) (PM)                                     |  |
| Well on L  |                                       |   | Started 12-26 20                 |   | 13 at                    |   | (AM) (PM   | (AM) (PM) Taken                                     |   | 20                                | at  |  | (AM) (PM)   |   |  |
|  |                                       |   |                                  |   |                          |   | OBSER  | RVED SURFAC   | CE DATA   | .^                                |   | Duration of Shut-  | 72  | Hours   |  |
| Static /<br>Dynamic<br>Property                                      | 1                                     | ifice Circle one ize Meter Prover Pres                          |                                  | Differential  |                          | Flowing<br>Temperature<br>t                 | Well Head<br>Temperature<br>t                            | Wellhea   | Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$    |                                   | Tubing<br>ead Pressure<br>or (P <sub>t</sub> ) or (P <sub>c</sub> ) | Duration<br>(Hours)  |   | Liquid Produced<br>(Barrels)                  |  |
| Shut-In  | · · · · · · · · · · · · · · · · · · · |   | psig (Pm)                        |   | Inches H <sub>2</sub> 0  |   |  | psig<br>34  | psia  | psig                              | psia  |  | -   |   |  |
| Flow   |                                       |   |                                  |   |                          |   |  | J4  |   |                                   |   |  |   |   |  |
|  | I                                     |   | I                                | 1   |                          |   | FLOW S   | TREAM ATT   | RIBUTES   | <u> </u>                          |   |  |   |   |  |
| Plate<br>Coeffiecient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd |                                       | Circle one:<br>Meter or<br>Prover Pressure<br>psia              |                                  | Press<br>Extension<br>✓ P <sub>m</sub> xh   |                          | Gravity<br>Factor<br>F <sub>g</sub>         |  | Flowing<br>Temperature<br>Factor<br>F <sub>11</sub> | Fa  | viation<br>actor<br>=<br>pv       | Metered Flow<br>R.<br>(Mcfd)  | v GOR<br>(Cubic Fed<br>Barrel)                                   | et/   | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub> |  |
|  |                                       |   |                                  |   |                          |   |  |   |   |                                   |   |  |   |   |  |
| ⊃_)² =   |                                       | :   | (P <sub>w</sub> ) <sup>2</sup> : | =   | :                        | (OPEN FLO                                   | , ,  | LIVERABILIT   | <b>Y) CALCUL</b><br>(P <sub>c</sub> - 14.4) +             |                                   | :   | (P <sub>a</sub> ) <sup>2</sup><br>(P <sub>d</sub> ) <sup>2</sup> | <sup>2</sup> = 0.2<br><sup>2</sup> =                        | <u>2</u> 07                                   |  |
| $(P_c)^2 - (P_a)^2$<br>or<br>$(P_c)^2 - (P_d)^2$                     |                                       | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |                                  | Choose formula 1 or 2:<br>1. $P_c^2 - P_a^2$<br>2. $P_c^2 - P_d^2$<br>divided by: $P_c^2 - P_w^2$ |                          | LOG of<br>formula<br>1. or 2.<br>and divide | P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> | Backpr<br>SI  | Backpressure Curve Slope = "n" or Assigned Standard Slope |                                   | LOG   | Antilog  | Open Flow<br>Deliverability<br>Equals R x Antilog<br>(Mcfd) |   |  |
|  |                                       |   |                                  |   |                          |   |  |   | -   |                                   |   |  |   |   |  |
|  |                                       |   |                                  |   |                          |   |  | Delivershills                                       |   |                                   |   |  |   |   |  |
| pen Flov   |                                       |   |                                  |   | Mcfd @ 14.               |   |  | Delivera  |   |                                   |   | Mcfd @ 14.65 psi   |   |   |  |
|  |                                       | -   | •                                |   |                          | , ,   |  | it ne is duly a                                     |   |                                   | ie above repo   | rt and that he ha  |   | 20  |  |
|  |                                       |   |                                  |   |                          |   |  | ¥.  |   |                                   |   |  |   | <b>~</b> \                                    |  |
|  |                                       |   | Witness                          | (if any   | )                        | · · · · · · · · · · · · · · · · · · ·       |  | <del></del>   |   |                                   | For C   | Company  | KC  | <del>C WIC</del>                              |  |
|  |                                       |   | For Com                          | nissio  | n                        | ٠   |  | _   |   |                                   | Che   | cked by  | M   | AR 26 2                                       |  |
|  |                                       |   |                                  |   |                          |   |  |   |   |                                   |   |  |   | RECEIV  |  |

| I declare under penalty:of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rama Operating Co., Inc. |
|--|
| and that the foregoing pressure information and statements contained on this application form are true and   |
| correct to the best of my knowledge and belief based upon available production summaries and lease records   |
| of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.  |
| I hereby request a one-year exemption from open flow testing for the Cummins 2-X   |
| gas well on the grounds that said well:  |
|  |
| - (Check one)  |
| 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   |
| I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.                   |
|  |
| Date: 3-25-2014  |
|  |
|  |
| Signature: Vice President-   |
|  |

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.

ATTENDED TO

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