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

| Type Test   | t:      |   |  |  | (                                      | See Instruct  | tions on Rev   | erse Side                               | )  |                             |                                |                         |   |
|---|---------|---|--|--|--|---|--|---|--|-----------------------------|--------------------------------|-------------------------|---|
| Open Flow   |         |   |  | Toet Date  | Test Date: API No. 15                  |   |  |   |  |                             |                                |                         |   |
| ✓ Deliverabilty   |         |   |  |  |  |   |  |   | 199-20362  | - OC                        | $\infty$                       |                         |   |
| Company<br>Raven F  |         | ces   | , LLC  |  |  |   | Lease<br>Lutters   |   | ·  |                             | #                              | Well<br>2-30            | Number  |
| County Location Wallace County NE/4 SW/4                    |         |   |  | Section<br>30                                    |  |   | TWP<br>11S   |   | RNG (E/W)<br>41W   |                             | Acres Attributed               |                         |   |
| Field   |         |   |  |  | Reservoir<br>Niobrara                  |   | ···  |   |  | hering Conn<br>gathering s  |                                | est Kans                | as Pipeline)  |
| Completion Date<br>8/2008                                   |         |   |  | Plug Bac<br>1158'                                | k Total Dept                           | th  | Packer Set at  |   |  |                             | -                              |                         |   |
| Casing Size Weight 4 1/2" 10.5                              |         |   | Internal Diameter  |  | Set at<br>1200'                        |   | Perforations<br>972'   |   | To<br>1000'  |                             |                                |                         |   |
| Tubing Size Weigh 2 3/8" 4.7                                |         |   |  | Internal Diameter                                |  |   | Set at<br>976'   |   | Perforations   |                             | То                             |                         |   |
| Type Con  |         |   |  | <del> </del>                                     | Type Fluid                             | d Production  |  |   | Pump Ui  | nit or Traveling            | Plunger?                       | Yes (N                  | •   |
| Producing   |         |   | nulus / Tubing   | )  |  | arbon Dioxí   | de   |   | % Nitrog   | en                          | G                              | as Gravity              | - G <sub>0</sub>  |
| Tubing  | looth/h | 1\  |  |  |  | Droo  | sure Taps  |   |  |                             | 4                              | Inter Bun               | (Prover) Size   |
| Vertical D  | Jeptn(r | 1)  |  | -  |  |   | sure laps  |   |  |                             |                                | 500"                    | (Prover) Size   |
| Pressure  | Buildu  |   | Shut in  |  |  |   | (PM)   |   |  | 20                          |                                |                         |   |
| Well on L   | .ine:   |   | Started 11/2   | 20 2   | 0 11 at 1                              | 1:40 a.m  | (AM) (PM)  | Taken 11                                | /21  | 20                          | 11 at 11                       | 1:40 a.m                | _ (AM) (PM)   |
|   |         |   |  |  |  | OBSERVE   | D SURFACE  | DATA                                    |  |                             | Duration of                    | Shut-in 2               | 4 Hours   |
| Static /<br>Dynamic<br>Property                             | Siz     | Size Meter Difference in                        |  | Pressure Differential in Inches H <sub>2</sub> 0 | Flowing Wett Head Temperature t t      |   | Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) |   | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>6</sub> ) |                             | Duration<br>(Hours)            |                         | quid Produced<br>(Barrels)                                |
| Shut-in   | .500    |   | 15.2   | 0  |  |   | psig<br>8  | psia                                    | psig<br>6  | psia                        | 24                             | 0                       |   |
| Flow  | .500    | )   | 15.6   | 3  |  |   | 5  |   | 5  |                             | 24                             | 0                       |   |
|   |         |   |  |  | ,                                      | FLOW STR  | EAM ATTRI  | BUTES                                   |  |                             |                                |                         |   |
| Plate Coefficeient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd |         | Pro   | Circle one:<br>Meter or<br>over Pressure<br>psia               | Press<br>Extension<br>√P <sub>m</sub> xh         | Extension Fact                         |   | Flowing<br>Femperature<br>Factor<br>F <sub>11</sub>                                  | Deviation<br>Factor<br>F <sub>p</sub> , |  | Metered Flov<br>R<br>(Mcfd) | GOR<br>(Cubic Feet/<br>Barrel) |                         | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub>             |
|   |         |   |  |  |  |   |  | <u> </u>                                |  |                             |                                |                         |   |
| (P <sub>c</sub> ) <sup>2</sup> =                            |         |   | (P <sub>w</sub> ) <sup>2</sup> =                               |  | -                                      | _   | ERABILITY)<br>% (P.  | CALCUL.<br>- 14.4) +                    |  |                             |                                | $(P_a)^2 = (P_d)^2 = 0$ | 0.207   |
| (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,                     |         | <u>- ·                                     </u> |  | Chaose formula 1 or 2                            | P <sub>a</sub> = .<br>:                |   | 1  | sure Curve                              | 14,4   |                             |                                | (r <sub>d</sub> ) =     |   |
| (P <sub>o</sub> ) <sup>2</sup> - (I                         | •       | (F  | P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | 1. Pa²-Pa² 2. Pa²-Pa² strided by: Pa²-Paï        | LOG of formula 1, or 2, and divide by: | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | Slope<br>Assi  | e = "n"<br>or<br>gned<br>rd Slope       | n x !  | LOG                         | Antilog                        |                         | Open Flow<br>Deliverability<br>uals R x Antilog<br>(Mcfd) |
|   |         |   |  |  |  |   |  |   |  |                             |                                |                         |   |
|   |         |   |  | <u></u>  | <u> </u>                               |   |  |   |  |                             |                                |                         |   |
| Open Flo  | w       |   |  | Mcfd @ 14.                                       | 65 psia                                |   | Deliverabil  | ity                                     |  |                             | Mcfd @ 14.0                    | 65 psia                 |   |
|   |         | _   | in, and that sa  | behalf of the                                    |  |   | · /  | 11.Uh                                   | day or   | Trus                        | Sur                            | he has kn               | owledge of  |
| <del></del>   |         |   | Witness (if  |  |  |   | _  |   |  |                             | ompany 1                       | EC-1-6                  | -2011   |
|   |         |   | For Comm   | 2340U  |  |   |  |   |  | Che                         | cked by                        |                         |   |

KCC WICHITA

|   | er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator Raven Resources, LLC   |
|---|---|
| and that the foregoerrect to the best of equipment instance I hereby requirements | going pressure information and statements contained on this application form are true and t of my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. est a one-year exemption from open flow testing for the <a href="Lutters#2-30">Lutters #2-30</a>  |
| _   | 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 e to supply to the best of my ability any and all supporting documents deemed by Commission y to corroborate this claim for exemption from testing. |
| Date: <u>12/14/2011</u>   | Signature:  Title: Managing Member  |

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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