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

|  |   |                                   | (                           | See Instruc                             | tions on Re                         | everse Side  | <del>)</del> )                      |                             |  |   |  |
|--|---|-----------------------------------|-----------------------------|---|-------------------------------------|--|-------------------------------------|-----------------------------|--|---|--|
| Open Flo   |   |                                   | Test Date                   | <del>3</del> :                          |                                     |  | API N                               | lo. 15                      |  |   |  |
| Deliveral  | bilty   |                                   | 5-22-13                     |   | M                                   |  |                                     | 20,831 -                    | 0000                                   |   |  |
| ompany<br>V.R. Williai   | ms, Inc.  |                                   | ·                           |   | Lease<br>Hager                      | •  |                                     |                             |  | Well Number   |  |
| County Location Greeley 495 FNL & 2310 FWL                           |   |                                   | Section<br>32               |   |                                     | TWP<br>20S   |                                     | RNG (E/W)<br>40W            |  | Acres Attributed 640  |  |
| ield<br>Bradshaw   | Reservoi<br>Winfiel   |                                   |                             | Gas Gathering Cor<br><b>Duke Energy</b> |                                     |  | nection                             |                             |  |   |  |
| Completion Date<br>09-03-05  |   |                                   | Plug Bac<br>2825            | k Total Dep                             | th                                  | h Packer Set at  |                                     | t at                        | N. Market                              |   |  |
| Casing Size Weight5 11.6   |   |                                   | Internal Diameter<br>4.052  |   | Set at <b>2829</b>                  |  | Perforations<br>2791                |                             | то<br>2806                             |   |  |
| Tubing Size Weight 2.375 4.7   |   |                                   | Internal I<br>1.995         | Internal Diameter<br>1.995              |                                     | Set at<br>2807   |                                     | Perforations                |  | То  |  |
| Type Completion  | Type Flui<br>Water  | d Productio                       | n                           | Pump Unit or Trav<br>Pump Unit          |                                     |  | oling Plunger? Yes / No             |                             |  |   |  |
| Producing Thru<br>Annulus  | u (Annulus / Tubi   | ng)                               | % C                         | arbon Diox                              | ide                                 | 77.77.17   | % Nitroger                          | า                           | Gas G<br>.758                          | iravity - G <sub>g</sub>                                    |  |
| /ertical Depth(<br>2830  | H)  | <del></del>                       | ALANUL M                    | Pres                                    | sure Taps                           | POTENTIAL CANADA   |                                     |                             | (Meter                                 | Run) (Prover) Size  |  |
| Pressure Builde  | up: Shut in 5-  | 21                                | 20_13_at_9                  | :15 AM                                  | (AM) (PM)                           | Taken 5-   | 22                                  | 20                          | 13 <sub>at</sub> 9:15                  | <b>AM</b> (AM) (PM)   |  |
| Well on Line:  | Started   |                                   | 20 at                       |   | (AM) (PM)                           | Taken  |                                     | 20                          | at                                     | (AM) (PM)   |  |
|  | 1   |                                   |                             | OBSERVE                                 | D SURFAC                            | E DATA   |                                     |                             | Duration of Shu                        | t-in 24 Hours   |  |
| Static / Orif<br>Dynamic Siz<br>Property (inch                       | ze Prover Pres  | Differential in                   | Flowing<br>Temperature<br>t | Well Head<br>Temperature<br>t           | Wellhead<br>(P <sub>w</sub> ) or (f | sing<br>I Pressure<br>$P_t$ ) or $(P_c)$   | Weilhead<br>(P <sub>w</sub> ) or (F | oing<br>Pressure            | Duration<br>(Hours)                    | Liquid Produced<br>(Barrels)                                |  |
| Shut-In  | pag (i m  | / Inches H <sub>2</sub> O         |                             |   | 42.0                                | 56.4   | psig                                | psia                        | 24                                     |   |  |
| Flow   |   |                                   |                             |   |                                     |  |                                     |                             |  |   |  |
|  | T   |                                   |                             | FLOW STE                                | REAM ATTR                           | RIBUTES  |                                     |                             |  |   |  |
| Plate<br>Coeffiecient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd | Circle one:<br>Meter or<br>Prover Pressure<br>psia              | Meter or Extension cover Pressure |                             | Gravity<br>Factor T<br>F <sub>g</sub>   |                                     | Flowing Deviation Factor Fort Frequency Factor Fort Fort Frequency Fort Fort Fort Fort Fort Fort Fort Fort |                                     | Metered Flor<br>R<br>(Mcfd) | w GOR<br>(Cubic F<br>Barrel            | eet/ Fluid  |  |
|  | <u> </u>  |                                   | (OPEN FLO                   | OW) (DELIV                              | ERABILITY                           | ') CALCUL  | ATIONS                              |                             | (P                                     | )2 = 0.207  |  |
| P <sub>c</sub> ) <sup>2</sup> =                                      | : (P <sub>w</sub> ) <sup>2</sup>                                | Choase formula 1 or               | P <sub>d</sub> =            |   | % (F                                | P <sub>c</sub> - 14.4) +   | 14.4 =                              | :                           |  | ) <sup>2</sup> =  |  |
| $(P_c)^2 - (P_a)^2$<br>or<br>$(P_c)^2 - (P_d)^2$                     | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |                                   |                             | LOG of formula 1. or 2. and divide by:  |                                     | Backpressure Curve Slope = "n" or Assigned Standard Slope  |                                     | G                           | Antilog                                | Open Flow<br>Deliverability<br>Equals R x Antilog<br>(Mcfd) |  |
|  |   |                                   |                             |   |                                     |  |                                     |                             |  |   |  |
| pen Flow   |   | Mcfd @ 14                         | .65 psia                    |   | Deliverati                          | oility   |                                     |                             | Mcfd @ 14.65 ps                        | sia .   |  |
| The unders   | signed authority, o   |                                   |                             | tates that h                            |                                     |  | make the                            |                             | ······································ |   |  |
|  | therein, and that s   |                                   |                             |   |                                     | 2  | day of May                          | /                           | at and that he h                       | KCC WICH  |  |
|  | Witness   | (if any)                          |                             |   | -                                   | Deke   | <u>Danie</u>                        |                             | Company                                | MAY 2 8 20  |  |
|  |   |                                   |                             |   |                                     |  |                                     |                             |  |   |  |

| exempt  | eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator W.R. Williams, Inc.  |
|---------|--|
| correct | to the best of my knowledge and belief based upon available production summaries and lease records   |
|         | oment installation and/or upon type of completion or upon use being made of the gas well herein named.  ereby request a one-year exemption from open flow testing for the Hager #2   |
|         | Il on the grounds that said well:  |
|         | 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  rther agree to supply to the best of my ability any and all supporting documents deemed by Commission necessary to corroborate this claim for exemption from testing. |
|         | Signature: LR Whelean.  Title: 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.

KCC WICHITA

MAY 28 2013

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