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

| Type Test:  |                      |   |   | (                                  | See Instruci                  | tions on Reve  | erse Side             | p)   |                              |                                       |  |
|---|----------------------|---|---|------------------------------------|-------------------------------|--|-----------------------|--|------------------------------|---------------------------------------|--|
| Opt   | en Flow<br>iverabili |   |   | Test Date<br>12/18/20              |                               |  |                       |  | No. 15<br><b>)07-22815-0</b> | 000                                   |  |
| Company<br>Atlas Ope                              |                      | ı, LLC  |   |                                    |                               | Lease<br>Cook, Ro  | bert                  |  |                              | 2-20                                  | Well Number  |
| County<br>Barber                                  |                      | Locat<br>SW-SV  |   | Section<br>20                      |                               | TWP<br>34  |                       | RNG (E/  | W)                           |                                       | Acres Attributed                                   |
| Field<br>Hardtner                                 |                      | •   |   | Reservoi<br>Mississi               |                               |  |                       | Gas Gath   | nering Conne                 | ection                                |  |
| Completio: 06/10/200                              |                      |   |   | Plug Bac<br>4857                   | k Total Dept                  | th   |                       | Packer S   | et at                        |                                       |  |
| Casing Size Weight 4 1/2 10.5                     |                      | Internal Diameter   |   | Set at<br><b>4895</b>              |                               |  | ations<br>3-28 4745-0 | To<br>698 4774   | -4778                        |                                       |  |
| Tubing Siz<br>2 3/8                               | Tubing Size Weight   |   | Internal Diameter<br>1.995  |                                    | Set at<br><b>4823</b>         |  | Perforations          |  | То                           |                                       |  |
| Type Com<br>Casing                                | pletion              | (Describe)  |   | Type Flui                          | d Production<br>Water         | n  |                       | Pump Un<br>Pump  | it or Traveling<br>Unit      | Plunger? Yes                          | / No   |
| Producing Thru (Annulus / Tubing) Annulus         |                      |   | % Carbon Dioxide  |                                    |                               |  | % Nitrogo<br>1.5268   |  | Gas G<br>.625                | ravity - G <sub>g</sub>               |  |
| Vertical De                                       | epth(H)              |   |   | -                                  | Pres<br>Pipe                  | sure Taps  |                       | - · · · - <u>-</u>   |                              | (Meter<br>4                           | Run) (Prover) Size                                 |
| Pressure E  | Buildup              | : Shut in 12/   | /182  | 0_14_at_1                          | :30                           | (AM)(PM)   | aken 12               | 2/19   | 20                           | 14 <sub>at</sub> 1:30                 | (AM)((PM)  |
| Well on Lir                                       | ne:                  | Started   | 20  | 0 at                               |                               | (AM) (PM) 1  | aken                  |  | 20                           | at                                    | (AM) (PM)  |
|   |                      | 1   |   |                                    | OBSERVE                       | D SURFACE  | DATA                  | ·  |                              | Duration of Shut                      | i-in 24 Hours                                      |
| Static / Orifice Dynamic Size Property (inches    |                      | Meter<br>Prover Press   | Pressure Differential ure in Inches H <sub>2</sub> 0  | Flowing<br>Temperature<br>t        | Well Head<br>Temperature<br>t | Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia |                       | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia |                              | Duration<br>(Hours)                   | Liquid Produced<br>(Barrels)                       |
| Shut-In   |                      |   |   |                                    |                               | 35   | po.u.                 | 0  | poid                         | · · · · · · · · · · · · · · · · · · · |  |
| Flow  |                      |   |   |                                    |                               |  |                       |  |                              |                                       |  |
| Plate   |                      | Circle one:   |   |                                    | FLOW STR                      | Flowing  | BUTES                 |  |                              |                                       | Flowing  |
| Coeffiecte (F <sub>b</sub> ) (F <sub>p</sub> Mcfd |                      | Meter or<br>Prover Pressure<br>psia                             | Press Extension P <sub>m</sub> xh   | Grav<br>Fac<br>F                   | tor                           | Temperature<br>Factor<br>F <sub>tt</sub>   | Fa                    | iation<br>ictor<br>:<br>pv   | Metered Flow<br>R<br>(Mcfd)  | GOR<br>(Cubic F<br>Barrel             | eet/ Fluid   |
|   |                      |   |   |                                    |                               |  |                       |  |                              | 1                                     |  |
| (P <sub>c</sub> ) <sup>2</sup> =                  |                      | : (P) <sup>2</sup> =  | ·:  |                                    |                               | <b>'ERABILITY)</b><br>% (P   |                       | ATIONS<br>14.4 =   | :                            |                                       | ) <sup>2</sup> = 0.207<br>) <sup>2</sup> =         |
|   |                      | (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 formula 1. or 2. and divide |                               | Backpress<br>Slope<br>   | •                     | , , , , , , , , , , , , , , , , , , ,  | ГЛ                           | Antilog                               | Open Flow Deliverability Equals R x Antilog (Mcfd) |
|   |                      |   |   |                                    | <del> </del>                  |  |                       |  |                              |                                       |  |
| Open Flow   | L                    |   | Mcfd @ 14.  | 65 psia                            |                               | Deliverabil  | itv                   |  |                              | Mcfd @ 14.65 ps                       |  |
|   |                      | ned authority, o  |   | •                                  | states that h                 |  | -                     | o make th  | <del></del>                  | <del></del>                           | as knowledge of                                    |
|   |                      |   | aid report is true  | and correc                         | t. Executed<br>Rec            | •  | <u>h</u>              | day of <u>Ja</u>   |                              |                                       | , 20 15  |
|   |                      | Witness   | (if any)  |                                    | FEB 0                         | 9 2015   |                       |  | For C                        | ompany                                |  |
|   |                      | For Com   | กโรรion   |                                    |                               | IUN DINISION   |                       |  | Chec                         | ked by                                |  |

CONSERVATION DIVISION WICHITA, KS

|   | er penalty of perjury under the laws of the state of Kansas that I am authorized to request ler Rule K.A.R. 82-3-304 on behalf of the operator Atlas Operating, LLC  |
|---|--|
| and that the foregoerrect to the best of equipment instance I hereby requirements | poing pressure information and statements contained on this application form are true and 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. Lest a one-year exemption from open flow testing for the |
| (Check  | 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   |
| _   | e to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.  |
| Date: _01/30/2015   |  |
| K   | Received NSAS CORPORATION COMMISSION Signature:    Conservation Division Wichita, KS   |

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.