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

| Type Tes   | t:                          |   |   | (  | 'See Instruct   | tions on Rev  | erse Side,                              | )                         |  |                            |   |  |
|--|-----------------------------|---|---|--|---|---|---|---------------------------|--|----------------------------|---|--|
| Or   | en Flow                     |   |   | Took Date  |   |   | •                                       | ΔΡΙ                       | No. 15   | •                          |   |  |
| De   | eliverabilty                | /   |   | Test Date 5-22   | -/2   |   |   | 15-                       | 071-20084  | 00-00                      | -   |  |
| Company<br>Horseshoe Operating, Inc.   |                             |   | <u> </u>  | 70   | Lease<br>Sell   | . ,   | ···                                     |                           | A-1  | Well Number                |   |  |
| County Location Greeley C NW   |                             |   | Section 3   |  |   | RNG (E  |   | W)                        |  | Acres Attributed 640       |   |  |
| Field<br>Bradshaw  |                             |   | Reservoi  | Reservoir<br>L. Winfield   |   |   |   | nering Conpo              |  |                            |   |  |
| Completion Date 8/75   |                             |   |   | Plug Back Total Depth  |   | Packe<br>Non  |   | et at                     |  | <del></del>                |   |  |
| Casing Size Weight 4.5 9.5   |                             |   | Internal I  | Internal Diameter 4.09   |   | Set at Perf<br>2959 286                             |   | rations<br>2              | то<br>2873   |                            |   |  |
| Tubing Size Weight 2.375 4.7   |                             |   |   | Internal Diameter  |   | Set at Peri   |   | rations                   | То   |                            |   |  |
| Type Completion (Describe) Single Gas  |                             |   |   |  | d Production  |   | Pump Unit or Traveling Yes              |                           |  | Plunger? Yes / No          |   |  |
|  |                             | nnulus / Tubi   | ina)  |  | arbon Dioxi   | de  | -                                       | % Nitrog                  | en .   | Gas Gr                     | avity - G   |  |
| Annulus  | 3                           | initias / Tabl  |   | !  |   |   | <u></u>                                 | , <u>.</u>                | Stage Stage  |                            | Run) (Prover) Size                                |  |
| Vertical D<br>2960   | epth(H)                     |   |   | i distribuica di Salaharan di S | Fie   | sure Taps   |   | :                         |  | 3"                         |   |  |
| Pressure   | Buildup:                    | Shut in   | 5-21  | 20/2 at /  | 2:32  | (AM) (PM)   | Taken                                   | 5-2:                      | 2  | 2 at 12:3                  | 32 (AM) (PM)                                      |  |
| Well on L  | ine:                        | Started   |   | . 20 at  |   | (AM) (PM)   | Taken                                   |                           | 20 _   | at                         | (AM) (PM)   |  |
| 1,5) 2   |                             |   |   | Ji Taya  | OBSERVE   | D SURFACE   |   |                           |  | ouration of Shut           | in 24 Hours                                       |  |
| Static /<br>Dynamic<br>Property  | Orifice<br>Size<br>(inches) | Prover Pressure in  |   | Temperature  | Temperature Temperature                                   |   | *************************************** |                           | ubing<br>ad Pressure<br>(P <sub>t</sub> ) or (P <sub>c</sub> ) | Duration<br>(Hours)        | Liquid Produced<br>(Barrels)                      |  |
| Shut-In  | .62                         | 5   |   |  |   | rug .   | 149.5                                   | psig                      |  | 24                         |   |  |
| Flow   |                             |   |   |  |   |   |   |                           |  |                            |   |  |
|  |                             |   |   |  | FLOW STR  | EAM ATTRI   | BUTES                                   |                           |  | <u>.</u>                   | <del></del>                                       |  |
| Plate<br>Coeffieci<br>(F <sub>b</sub> ) (F<br>Mcfd                               | ent<br>,) f                 | Climbe one: Pr Meter or Exte Prover Pressure psla               |   | Fac  | tor 1   | Flowing<br>Temperature<br>Factor<br>F <sub>ft</sub> | Fa                                      | iation<br>ctor<br>r<br>pv | Metered Flow<br>R <sub>.</sub><br>(Mcfd)                       | GOR<br>(Cubic Fo<br>Barrel | i Gravita I                                       |  |
|  |                             |   |   |  |   |   |   |                           |  |                            |   |  |
| (P <sub>c</sub> ) <sup>2</sup> =   | :                           | (P <sub>w</sub> ) <sup>2</sup>                                  | = :   | (OPEN FL   |   | ERABILITY)  | CALCUL<br>2 - 14.4) +                   |                           | :  | (P <sub>a</sub>            | ) <sup>2</sup> = 0.207<br>) <sup>2</sup> =        |  |
| (P <sub>c</sub> ) <sup>2</sup> - (F<br>or<br>(P <sub>c</sub> ) <sup>2</sup> - (F | <u>-</u>                    | (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> |  |   | Slop  | ssure Curve<br>e = "n"<br>or            | n x                       | LOG  | Antilog                    | Open Flow<br>Deliverability<br>Equals R x Antilog |  |
| क्तिनहरू   |                             | a   | dMded by: $P_c^2$ - I   |  | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> | Standa  | ard Slope                               |                           |  | ·*                         | (Mcfd)  |  |
| · · · · · · · · · · · · · · · · · · ·  |                             |   |   |  |   | <u> </u>  | <u> </u>                                |                           |  |                            |   |  |
| Open Flov  | v                           |   | Mcfd @ 1  | 4.65 psia  |   | Deliverab   | ility                                   |                           | N  | Acfd @ 14.65 ps            | sia   |  |
| The u  | ındersign                   | ed authority,   | on behalf of th   | ne Company, s  | states that h   | e is duly au  | thorized t                              | o make ti                 | ne above repor   | t and that he h            | as knowledge of                                   |  |
| he facts st  | ated ther                   | ein, and that   | said report is to   | rue and correc   | t. Executed   | this the  | 7_                                      | day of                    | Juli   | follow.                    | 20 / ム<br>RECEIVE                                 |  |
| <del></del>  |                             | Witness   | s (if any)  | ······································   | <u>.</u> .  |   | 7                                       | ani                       | For Co   | property of                | JUL 13 2  |  |
|  | <del>-</del>                | Far Cor   | nmission  | ·····  | <del></del> ,   |   | V                                       |                           | Chec   | ked by                     |   |  |
|  |                             |   |   |  |   |   |   |                           |  |                            | KCC WICH  |  |

| exemp<br>and the<br>correct<br>of equi | leclare 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 Horseshoe Operating, Inc.  at the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records pment installation and/or upon type of completion or upon use being made of the gas well herein named. Pereby request a one-year exemption from open flow testing for the Sell A-1  If (Check one)  If is a coalbed methane producer  If 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  |
| Date:                                  | 7-9-12  |
|  | Signature: <u>Janiel Ripley</u> Title: <u>Production</u> Assistant  |

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.