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

| Type Te   | est:                         |                                     | (See Instructions on Reverse Side) |   |                     |                                      |  |   |                      |   |                                       |                                  |  |   |  |
|---|------------------------------|-------------------------------------|------------------------------------|---|---------------------|--------------------------------------|--|---|----------------------|---|---------------------------------------|----------------------------------|--|---|--|
|   | Open I                       | Flow                                |                                    |   |                     |                                      |  |   |                      |   |                                       |                                  |  |   |  |
| Deliverabilty   |                              |                                     |                                    |   | Test Da <b>7-/8</b> |                                      | API No. 15<br>• 15-071-20035 - <b>0000</b> |   |                      |   |                                       |                                  |  |   |  |
| Compa   | ny                           |                                     |                                    |   |                     | 1-/0                                 | <del>/</del>                               | Lease   |                      |   | 7-07 1-2000                           |                                  | Woll A                                   | lumber  |  |
| Horse   | sho                          | э Ор                                | erating,                           | Inc.  |                     |                                      |  | Drake   |                      |   |                                       | 1                                | wen i                                    | dunioei                                       |  |
| Gounty Location Greeley C NE                                    |                              |                                     | n                                  | Section 27  |                     | TWP<br>20S                           |  | RNG (E/W)<br>40W  |                      | Acres Attribute   |                                       | Attributed                       |  |   |  |
| Field   |                              |                                     |                                    |   |                     | Reservo                              | ir   |   |                      | Gas Ga  | thering Conr                          | nection                          |  |   |  |
| Bradshaw  |                              |                                     |                                    | Chase   | <b>:</b>            |                                      | DCP Midst                                  |   | Midstrea             | am -  |                                       |                                  |  |   |  |
| Completion Date<br>11/1973                                      |                              |                                     |                                    | Plug Ba<br>2848   | ck Total Der        |                                      |  |   | Packer Set at None   |   |                                       |                                  |  |   |  |
| Casing 5  | Casing Size Weight 5.5 14.0  |                                     |                                    |   | Internal<br>5.012   | Diameter                             | Set at <b>2954</b>                         |   | Perforations<br>2810 |   | то<br>2820                            |                                  |  |   |  |
| Tubing 8 2.375  | Tubing Size Weight 2.375 4.7 |                                     |                                    |   | Internal<br>1.995   | Diameter                             | Set at <b>2831</b>                         |   | Perforations         |   | То                                    |                                  |  |   |  |
| Type Co   | mplet                        | ion (D                              |                                    |   |                     |                                      | Type Fluid Production                      |   |                      | Pump U  | nit or Traveline                      | Plunger? Yes                     | / No                                     |   |  |
| Single  |                              |                                     |                                    |   |                     | Water                                |  |   |                      | Yes   |                                       | y 1 10.11go 1. 10.5              | , ,,                                     |   |  |
| Producin<br>Annulu  |                              | u (An                               | inulus / Tu                        | bing)   |                     | % (                                  | Carbon Diox                                | ide   |                      | % Nitro   | gen                                   | Gas G                            | ravity -                                 | G <sub>g</sub>                                |  |
| Vertical D  | Depth                        | (H)                                 |                                    |   |                     |                                      | Pres                                       | sure Taps   |                      |   | · · · · · · · · · · · · · · · · · · · | (Meter                           | Run) (F                                  | Prover) Size                                  |  |
|   | Build                        | lup:                                | Shut in                            |   | 7-17 2              | 0 13 <sub>at</sub>                   | 9:08                                       | (AM) (PM)   | Taken                | 7-1   | 18 20                                 | 13 at 9:0                        | 18                                       | (AM) (PM)                                     |  |
| Well on L   |                              |                                     |                                    |   |                     |                                      |  |   |                      |   |                                       | at                               |  | (AM) (PM)                                     |  |
|   | 7%                           |                                     | <del></del>                        |   |                     |                                      | OBSERVE                                    | D SURFACE   | DATA                 | <del></del>   |                                       | Duration of Shut                 | in 0                                     | Hours   |  |
|   |                              | Orifice Circle of Mete              |                                    | r Differential  |                     | Flowing<br>Temperature               | Well Head<br>Temperature                   |   |                      | Tubing<br>Wellhead Pressure   |                                       | Duration                         |  | Liquid Produced                               |  |
| Property  |                              | ches) Prover Pre<br>psig (P         |                                    | 1 ""  |                     | t                                    | t  | (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia |                      | (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia |                                       |                                  |  | (Barrels)                                     |  |
| Shut-In   | .68                          | 25                                  |                                    |   |                     |                                      |  |   | 49                   |   |                                       | 24                               |  |   |  |
| Flow  |                              |                                     | _                                  |   |                     |                                      |  |   | <del>//</del>        |   |                                       | 0, 1                             |  |   |  |
|   |                              |                                     | <u> </u>                           |   |                     |                                      | EL OW STR                                  | EAM ATTOI   |                      |   |                                       |                                  | <u> </u>                                 |   |  |
| Plate   |                              | <u> </u>                            | Circle one:                        | Т   |                     | 1                                    |  | EAM ATTRIE  | DIES                 |   |                                       | <del></del>                      |  | 1   |  |
| Coefficcient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd           |                              | Meter or<br>Prover Pressure<br>psia |                                    | Press<br>Extension<br>✓ P <sub>m</sub> x h                  |                     | Grav<br>Fact<br>F <sub>g</sub>       | or T                                       | Temperature Factor  |                      | viation Metered Flow<br>actor R<br>F <sub>pv</sub> (Mcfd)             |                                       | v GOR<br>(Cubic Feet/<br>Barrel) |  | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub> |  |
| -   |                              |                                     |                                    |   |                     |                                      |  |   |                      |   |                                       |                                  | •  |   |  |
|   |                              |                                     | ,                                  |   | •                   | (OPEN FLC                            | W) (DELIVE                                 | ERABILITY)  | CALCUL               | ATIONS  |                                       | \ (P.)                           | <sup>2</sup> = 0.2                       | 207   |  |
| (P <sub>c</sub> )² =  |                              | <u>_:_</u>                          | (P <sub>w</sub> ) <sup>2</sup>     | =   | <u> </u>            | P <sub>d</sub> = '_                  |  | (P <sub>c</sub>   | - 14.4) +            | 14.4 =  | :                                     | · (P <sub>a</sub> )              |  |   |  |
| (P <sub>c</sub> )² - (P <sub>c</sub>                            | )2                           | (P                                  | )² - (P <sub>w</sub> )²            |   | se formula 1 or 2:  | LOG of formula                       |  | Backpress<br>Slope  |                      | 7,71  | 06                                    |                                  | O  | en Flow                                       |  |
| (P <sub>e</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup> |                              |                                     |                                    | 2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup> |                     | 1. or 2.<br>and divide p2. p2<br>by: |  | Assigned Standard Slope   |                      | n x LOG   |                                       | Antilog                          | Deliverability Equals R x Antilog (Mcfd) |   |  |
|   |                              |                                     |                                    | : :   |                     |                                      | 101  |   | <del></del>          |   |                                       | *                                | <del> </del>                             |   |  |
|   |                              |                                     |                                    |   |                     |                                      |  |   |                      |   |                                       |                                  |  |   |  |
| pen Flow Mcfd @ 14.65   |                              |                                     |                                    | psia  |                     | Deliverability                       |  | Mcfd @ 14.65 psia   |                      |   |                                       |                                  |  |   |  |
| The un  | dersi                        | gned                                | authority, d                       | on be   | half of the C       | Company, sta                         | ates that he                               | is duly auth  | orized to            | make th   | e above reppi                         | t and that he ha                 | s know                                   | ledge, of                                     |  |
| e facts stat  | ted th                       | erein,                              | and that s                         | aid re  | eport is true       | and correct.                         | Executed to                                | his the   | <u>5</u> .           | lay of  | )ctoly                                | W_                               |  | <u> 13</u> .                                  |  |
|   |                              |                                     |                                    | 1   |                     |                                      |  |   | (                    | an  | iico) K                               | inlow                            |  |   |  |
|   |                              |                                     | Witness                            | (if any)  |                     |                                      |  | <del></del>   |                      | 1   | For                                   | omfany                           |  |   |  |
|   |                              | . * * .                             | For Com                            | nission   |                     |                                      |  | ·<br>   | <u> </u>             | V.  | . /                                   | rod by                           |  | ·   |  |
|   |                              |                                     |                                    |   |                     |                                      |  |   |                      |   | Check                                 | red by                           |  |   |  |

| See also see the second se |  | tur.   |                   |  |  |  |  |  |
|--|--|--|-------------------|--|--|--|--|--|
| is an entrol   | ·  | •  |                   |  |  |  |  |  |
| I declare under penalty of perjue xempt status under Rule K.A.R. 82-   |  | he state of Kansas that I am authoperator Horseshoe Operating, I | •                 |  |  |  |  |  |
| and that the foregoing pressure infe   | ormation and stateme   | nts contained on this application                                | form are true and |  |  |  |  |  |
| correct to the best of my knowledge  |  |  |                   |  |  |  |  |  |
| of equipment installation and/or upor  |  |  |                   |  |  |  |  |  |
| I hereby request a one-year exe  |  |  | on nordin hamed.  |  |  |  |  |  |
| gas well on the grounds that said we   |  | tooting for the  |                   |  |  |  |  |  |
| gas were an are grounds that said we   | ,  |  |                   |  |  |  |  |  |
| (Check one)  |  |  |                   |  |  |  |  |  |
| is a coalbed meth  | ane producer   |  |                   |  |  |  |  |  |
| is cycled on plung   | ger lift due to water  | I .  |                   |  |  |  |  |  |
| •  | is a source of natural gas for injection into an oil reservoir undergoing ER |  |                   |  |  |  |  |  |
| is on vacuum at th   |  |  |                   |  |  |  |  |  |
|  |  | te in excess of 250 mcf/D  | ,                 |  |  |  |  |  |
| -  |  |  |                   |  |  |  |  |  |
| I further agree to supply to the b   | est of my ability any a  | nd all supporting documents deen                                 | ned by Commission |  |  |  |  |  |
| staff as necessary to corroborate this   | · ·  | -  | -11               |  |  |  |  |  |
|  | ·  | ·  | •                 |  |  |  |  |  |
| Date: _ /0 - 15 - 13   | •  |  |                   |  |  |  |  |  |
| Date /// /3 /  |  |  | •                 |  |  |  |  |  |
|  |  |  |                   |  |  |  |  |  |
|  | •  |  |                   |  |  |  |  |  |
|  |  |  |                   |  |  |  |  |  |
| •  |  | Daniel Viola   |                   |  |  |  |  |  |
| V  | Signature:   | anico ripiliz  | 1                 |  |  |  |  |  |
|  | Title:   | roduction ASSIS  | stant             |  |  |  |  |  |
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|  |  | •  |                   |  |  |  |  |  |
|  |  |  |                   |  |  |  |  |  |

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.