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

| Type Tes                                  | t:   |         |   |                       |  | (  | 'See Instr                          | uctions on F                               | Reverse :  | Side)             |                  |  |                        |                         |   |  |
|---|--|---------|---|-----------------------|--|--|-------------------------------------|--|--|-------------------|------------------|--|------------------------|-------------------------|---|--|
| Open Flow                                 |  |         |   |                       | Test Date:   |  |                                     |  |  | API No. 15        |                  |  |                        |                         |   |  |
| ✓ Deliverabilty                           |  |         |   | 03/12/2               |  | 023-20287 - 00-00                        |                                     |  |  |                   |                  |  |                        |                         |   |  |
| Company<br>Petrole                        |  | eve     | lopment (   | Corp                  |  |  |                                     | Lease<br>Bruns                             | swig   |                   |                  |  | 7-2                    |                         | Number  |  |
| County<br>Cheyer                          | nne  |         | Location<br>NWNWNE  |                       |  | Section<br>7                             |                                     | TWP<br>2S                                  |  |                   |                  | W)   |                        | Acres Attributed<br>160 |   |  |
| Field<br>Cherry Creek                     |  |         |   | Reservoir<br>Niobrara |  |  |                                     | Gas Gathering Connec<br>PDC Eureka Gathe   |  |                   |                  |  |                        |                         |   |  |
| Completion Date<br>11/01/1990             |  |         |   |                       | Plug Bac<br>1635'  | k Total De                               | epth                                | th Packer Set at n/a                       |  |                   | et at            | <u></u>  | •                      | <del> </del>            |   |  |
| Casing S<br>4.5"                          | Casing Size<br>1.5"  |         |   | Weight<br>10.5#       |  |  | Diameter                            |  | Set at<br>1679'                                    |                   |                  | ations   | To<br>154              | To<br>1548'             |   |  |
| Tubing S<br>2.375"                        | ubing Size   |         |   | Weight<br>4.75#       |  |  | Diameter                            | Se   | Set at<br>1573'                                    |                   | Perforations     |  | То                     | То                      |   |  |
| Type Completion (Describe) N2 Fracture    |  |         | 2" 15 Type Fluid Production Brine Water                         |                       |  |  | Pump Unit or Traveling P<br>Yes, PU |  |  |                   | s / No           | · · · · · · · · · · · · · · · · · · ·            |                        |                         |   |  |
| Producing Thru (Annulus / Tubing) Annulus |  |         |   |                       | % Carbon Dioxide   |  |                                     | % Nitrogen <1%                             |  |                   |                  | Gas Gravity - G <sub>0</sub>                     |                        |                         |   |  |
| Vertical C                                |  | 1)      |   |                       |  | ×170                                     | Pro                                 | essure Taps                                |  |                   | 1 70             |  | (Met                   | er Run) (               | Prover) Size                                  |  |
| 1749'                                     |  | •       |   |                       |  |  |                                     |  |  |                   |                  |  | (14101)                | J. 7.G.17 (             | 1 10401) 0120                                 |  |
| Pressure                                  | Buildu   | p:      | Shut in 03  | /12                   | 5  | 0_12 at 7                                | :35am                               | (AM) (PM                                   | l) Taken   | 03/13             | 3                | 20   | 12 at 8:35             | am                      | (AM) (PM)                                     |  |
| Well on L                                 | ine:   |         | Started   |                       | 20   | D at                                     |                                     | (AM) (PN                                   | l) Taken   | <del></del>       |                  | 20   | at                     |                         | _ (AM) (PM)                                   |  |
|   |  |         |   |                       |  |  | OBSER                               | /ED SURFA                                  | CE DATA  | •                 |                  |  | Duration of Sh         | ut-in _2                | 4 Hours                                       |  |
| Static /<br>Dynamic<br>Property           | Orifice<br>Size<br>(inches)  |         | Meter C<br>Prover Pressure                                      |                       | Pressure<br>Differential<br>in<br>nches H <sub>2</sub> 0 | Flowing<br>Temperature<br>t              | Well Head<br>Temperatu<br>t         | mperature (P <sub>w</sub> ) or (           |  |                   |                  | abing<br>d Pressure<br>(P,) or (P <sub>e</sub> ) | Duration<br>(Hours)    | Liq                     | Liquid Produced<br>(Barrels)                  |  |
| Shut-In                                   |  |         |   |                       | •  |  |                                     | 105  | ρsia   |                   | bara             | psia   |                        |                         |   |  |
| Flow                                      |  |         |   |                       |  |  |                                     |  |  |                   |                  |  |                        |                         |   |  |
|   |  |         |   | <del></del>           |  | <del></del>                              | FLOW S                              | TREAM ATT                                  | RIBUTE   | <u>s</u>          |                  |  |                        |                         | 1   |  |
| (F <sub>b</sub> ) (F                      | Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mold        |         | Circle one:<br>Meter or<br>Prover Pressure<br>psia              |                       | Press<br>Extension<br>P <sub>m</sub> xh                  | Gravity<br>Factor<br>F <sub>g</sub>      |                                     | Flowing Temperature Factor F <sub>II</sub> | Temperature Factor F                               |                   | or R             |  | v GC<br>(Cubic<br>Barr | Feet/                   | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub> |  |
|   |  |         |   | <u> </u>              |  |  |                                     |  |  |                   |                  | <del></del>                                      |                        |                         |   |  |
| (P <sub>c</sub> )² =                      |  |         | /D \? -   | _                     |  | -  | OW) (DEL                            | IVERABILIT<br>%                            | •  |                   |                  |  |                        | )² = 0                  | .207  |  |
| (P <sub>e</sub> ) <sup>2</sup> - (P       | P_)2   | ·<br>(F | (P <sub>w</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | Choose<br>1.          | formula 1 or 2:  | P <sub>d</sub> =                         | Γ -                                 | Backp                                      | (P <sub>c</sub> - 14.4<br>ressure Co<br>lope = "n" |                   | n x L(           | <u>·</u>   | (/                     | 1                       | Open Flow                                     |  |
| (P <sub>e</sub> )² ⋅ (f                   | or (P <sub>c</sub> ) <sup>2</sup> · (P <sub>d</sub> ) <sup>2</sup> |         | Ì   | 2. Pc2-Pc2            |  | formula<br>1. or 2.<br>and divide<br>by: | P <sub>0</sub> 2 - P <sub>w</sub> 2 | ;  | •  | gned              |                  |  | Antilog                |                         | Deliverability Equals R x Antilog (Mcfd)      |  |
| <del></del>                               |  |         |   |                       |  | <u> </u>                                 |                                     |  |  |                   |                  |  |                        | _                       |   |  |
| Open Flor                                 | open Flow Mcfd @ 14.65 psia  |         |   |                       |  | Deliverability                           |                                     |  |  | Mcfd @ 14.65 psia |                  |  |                        |                         |   |  |
|   |  | iana    | Lauthority -  |                       |  |  | totoo the t                         |  |  |                   | -1               |  | <del></del>            |                         |   |  |
|   |  |         | n, and that s   |                       |  |  |                                     |  |  |                   | eke ine<br>of Ap |  | rt and that he         |                         | wledge of                                     |  |
|   |  |         |   |                       |  |  |                                     |  | (  | Ju                | di               | ch O   | Prince                 | U                       | RECEIVE                                       |  |
|   |  |         | Witness   | (il any)              |  |  |                                     |  | (  | 1                 |                  | For C  | ompany                 |                         | APR 2 4 2                                     |  |
|   |  |         | For Com   | mission               |  |  | <del></del>                         |  |  |                   |                  | Chec   | ked by                 |                         |   |  |

| exempt status und<br>and that the foregoing<br>correct to the best<br>of equipment insta | 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 Petroleum Development Corp 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. |
|--|---|
|  | est a one-year exemption from open flow testing for the Brunswig 7-2-2 ounds 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  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: <u>04/17/2012</u>  |   |
|  | Signature:  |

## 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.