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

| Open Flo Deliverate Company Hoble Energy County Cheyenne Field Cherry Creek Completion Da H/27/2007 Casing Size Type Completio Single (gas) Producing Thru Fubing Pressure Buildu Well on Line: | y Inc  Locat NW-NI  k ate  Weigi 17#, Weig 4.7# on (Describe) ) u (Annulus / Tubin (H) | 9.5#<br>nt   | Saltwat  | Total Dep<br>iameter<br>3-1/4"<br>iameter<br>I Productio<br>er<br>arbon Dioxi | Set a 302', Set a  | it<br>, 1745'                                    | RNG (EA<br>42W<br>Gas Gath<br>Kinder I<br>Packer S<br>Perfor<br>1542                             | hering Conne<br>Morgan<br>let at<br>rations<br>2'<br>rations | 31-16  To 1578'  To Plunger? Yes  Gas Gra    | Acres Attributed RECEIVE DEC 0.5 2 KCC WICH  / No avity - G <sub>q</sub> |
|---|--|--|--|---|--|--|--|--|--|--|
| Company Joble Energy County Cheyenne Field Cherry Creek Completion Da //27/2007 Casing Size -/-, 4-1/2" Tubing Size -/-3/8" Type Completion Single (gas) Producing Thru Tubing /ertical Depth() | y Inc  Locat NW-NI  k ate  Weig 17#, Weig 4.7# on (Describe) ) u (Annulus / Tubin (H)  | 9.5#<br>nt   | 16 Reservoir Niobrara Plug Back 1704' Internal Di 9-7/8", 6 Internal Di 1.995 Type Fluid Saltwat                         | Total Dep<br>iameter<br>5-1/4"<br>iameter<br>I Productio<br>er<br>arbon Dioxi | Rueb Fa TWP 3S  th  Set a 302', Set a  | it<br>, 1745'                                    | RNG (EA<br>42W<br>Gas Gatt<br>Kinder I<br>Packer S<br>Perfor<br>1542<br>Perfor<br>Pump Un<br>Yes | w) hering Conne Morgan let at rations 2' rations             | 31-16  To 1578'  To Plunger? Yes  Gas Gra    | RECEIVE  DEC 0.5 2  KCC WICH  No  avity - G <sub>q</sub>                 |
| County Cheyenne Cherry Creek Completion Da //27/2007 Casing Size // 4-1/2" Cubing Size /-3/8" Cype Completio Cingle (gas) Producing Thru Cubing Certical Depth()                                | Locat NW-NI k ate  Weigi 17#, Weig 4.7# on (Describe) ) u (Annulus / Tubin (H)         | 9.5#<br>nt   | 16 Reservoir Niobrara Plug Back 1704' Internal Di 9-7/8", 6 Internal Di 1.995 Type Fluid Saltwat                         | Total Dep<br>iameter<br>5-1/4"<br>iameter<br>I Productio<br>er<br>arbon Dioxi | Set a 302', Set a  | , 1745'  | Gas Gath<br>Kinder I<br>Packer S<br>Perfor<br>1542<br>Perfor<br>Pump Un<br>Yes                   | hering Conne<br>Morgan<br>let at<br>rations<br>2'<br>rations | To<br>1578'<br>To<br>Plunger? Yes<br>Gas Gra | RECEIVE  DEC 0 5 2  KCC WICH  No  avity - G <sub>q</sub>                 |
| cherry Creek Completion Da /27/2007 Casing Size ", 4-1/2" Tubing Size -3/8" Type Completion Single (gas) Producing Thru Tubing Peressure Buildu   | Weigl 17#, Weigl 4.7# on (Describe) ) u (Annulus / Tubin (H)                           | 9.5#<br>ht   | Reservoir<br>Niobrara<br>Plug Back<br>1704'<br>Internal Di<br>9-7/8", 6<br>Internal Di<br>1.995<br>Type Fluid<br>Saltwat | Total Dep<br>iameter<br>5-1/4"<br>iameter<br>I Productio<br>er<br>arbon Dioxi | Set a 302', Set a  | , 1745'  | Gas Gatt<br>Kinder I<br>Packer S<br>Perfor<br>1542<br>Perfor<br>Pump Un<br>Yes                   | Morgan iet at rations 2' rations iit or Traveling            | To<br>1578'<br>To<br>Plunger? Yes<br>Gas Gra | DEC 0.5 2 KCC WICH   |
| cherry Creek completion Da /27/2007 casing Size ", 4-1/2" cubing Size -3/8" cype Completio Single (gas) Producing Thru fubing Pressure Buildu   | Weigl 17#, Weigl 4.7# on (Describe) ) u (Annulus / Tubin (H)                           | 9.5#<br>ht   | Niobrara Plug Back 1704' Internal Di 9-7/8", 6 Internal Di 1.995 Type Fluid Saltwat % Ca                                 | Total Dep<br>iameter<br>5-1/4"<br>iameter<br>I Productio<br>er<br>arbon Dioxi | Set a 302', Set a  | , 1745'  | Perfor<br>Perfor<br>Perfor<br>Pump Un<br>Yes   | Morgan iet at rations 2' rations iit or Traveling            | To<br>1578'<br>To<br>Plunger? Yes<br>Gas Gra | DEC 0.5 2 KCC WICH   |
| /27/2007 lasing Size ", 4-1/2" lubing Size -3/8" lype Completion lingle (gas) lyroducing Thru lyping lertical Depth(lypersure Builducters)  | Weigh 17#, Weigh 4.7# on (Describe) ) u (Annulus / Tubin (H)                           | 9.5#<br>ht   | 1704' Internal Di 9-7/8", 6 Internal Di 1.995 Type Fluid Saltwat   | iameter 3-1/4" iameter I Productio er arbon Diox                              | Set a 302', Set a  | , 1745'  | Perfor<br>1542<br>Perfor<br>Pump Un<br>Yes   | rations<br>2'<br>rations<br>nit or Traveling                 | 1578'<br>To<br>Plunger? Yes<br>Gas Gra       | / No   |
| ", 4-1/2" ubing Size -3/8" ype Completio lingle (gas) roducing Thru ubing ertical Depth(l   | 17#, Weig 4.7# on (Describe) ) u (Annulus / Tubin (H)                                  | 9.5#<br>ht   | 9-7/8", 6<br>Internal Di<br>1.995<br>Type Fluid<br>Saltwat<br>% Ca   | G-1/4" iameter I Productio er arbon Dioxi                                     | 302', Set a  | , 1745'  | Pump Un<br>Yes   | 2'<br>rations<br>lit or Traveling                            | 1578'<br>To<br>Plunger? Yes<br>Gas Gra       | / No<br>avity - G <sub>q</sub>   |
| ubing Size -3/8"  ype Completio ingle (gas) roducing Thru ubing ertical Depth(i   | Weig 4.7# on (Describe) ) u (Annulus / Tubin (H)                                       | g)<br>25 2   | Internal Di<br>1.995<br>Type Fluid<br>Saltwat<br>% Ca  | iameter I Productio er arbon Dioxi  | Set and set an |  | Pump Un<br>Yes   | nit or Traveling   | Plunger? Yes<br>Gas Gra                      | avity - G <sub>g</sub>   |
| ype Completion ingle (gas) roducing Thru ubing ertical Depth(I  | on (Describe) ) u (Annulus / Tubin (H)   | 25 2   | Type Fluid<br>Saltwat<br>% Ca  | er<br>arbon Dioxi<br>Pres   | de<br>sure Taps  |  | Yes  |  | Gas Gra                                      | avity - G <sub>g</sub>   |
| roducing Thru ubing ertical Depth(I   | u (Annulus / Tubin (H) lup: Shut in 1/2  | 25 2   | % Ca   | arbon Dioxi<br>Pres   | sure Taps  |  |  | en   |  |  |
| ertical Depth(l   | lup: Shut in 1/2   |  | <sub>0_</sub> 12 <sub>at_</sub> 12   |   |  |  |  |  | (Meter F                                     | Run) (Prover) Size   |
| ressure Buildu  | lup: Shut in 1/2   |  | <sub>0_</sub> 12 <sub>at _</sub> 12  |   |  |  |  |  | •  | - , , ,  |
|   | iup: Snut in   |  | <sub>0</sub> 12 <sub>at</sub> 12   | 1.00  |  |  |  |  |  |  |
| Vell on Line:   | Started 1/2  | .6   |  |   | (AM) PM  | Taken  |  | 20   | at   | (AM) (PM)  |
|   |  | Vell on Line: Started 1/26 20  |  | 12 at 3:40 (/   |  | Taken  | 20 _   |  | at (AM) (PM)                                 |  |
|   |  |  | ······································   | OBSERVE   | D SURFACE  | E DATA   |  |  | Duration of Shut-i                           | 27.25 Hours  |
| Static / Orif   | ifice Circle one:  |  |  | Flowing Well Head   |  | Casing<br>Wellhead Pressure                      |  | ubing<br>ad Pressure   | Duration                                     | Liquid Produced  |
| ,   | Prover Press   | r Pressure in  | Temperature Tempera  | Temperature<br>t  | ture (P <sub>w</sub> ) or (P <sub>t</sub> ) or (   |  |  | (P <sub>1</sub> ) or (P <sub>c</sub> )                       | (Hours)                                      | (Barrels)  |
| Shut-In   | psig (Pm)  | Inches H <sub>2</sub> 0  |  |   | psig<br>139  | psia   | psig   | psia   |  |  |
| Flow  |  |  |  |   | 139  |  | <u> </u>   |  |  |  |
| <u> </u>  |  |  |  | FLOW STR  | REAM ATTRI   | IBUTES   | <u> </u>   |  |  | <u>i                                     </u>                            |
| Plate Circle one:  Coefficient Meter or  (F <sub>b</sub> ) (F <sub>p</sub> ) Prover Pressure  Mcfd psia   |  | Press<br>Extension<br>✓ P <sub>m</sub> xh  | Gravity<br>Factor<br>F <sub>a</sub>  |   | Temperature Fa   |  | riation<br>actor<br>=<br>pv  | Metered Flow<br>R<br>(Mcfd)                                  | GOR<br>(Cubic Fee<br>Barrel)                 | Flowing<br>Fluid<br>Gravity<br>G <sub>m</sub>                            |
|   |  |  |  |   |  |  |  |  |  |  |
| ) <sup>2</sup> =  | : (P)²:  | =:   | (OPEN FLO  |   | <b>/ERABILITY</b> )<br>% (P  | •  | .ATIONS<br>- 14.4 =  | :  |  | <sup>2</sup> = 0.207<br><sup>2</sup> =                                   |
| $(P_c)^2 - (P_a)^2$<br>or<br>$(P_c)^2 - (P_d)^2$  |  | Choose tormula 1 or 2  1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ divided by: $P_c^2 - P_w^2$ | LOG of<br>formula<br>1. or 2.  | P <sub>c</sub> <sup>2</sup> -P <sub>*</sub> <sup>2</sup>                      | Backpres<br>Stop<br>Ass  | ssure Curve<br>oe = "n"<br>orsigned<br>ard Slope | , ,  | ſΊ   | Antilog                                      | Open Flow<br>Deliverability<br>Equals R x Antilog<br>(Mcfd)              |
|   |  |  |  |   |  |  |  |  |  |  |
| pen Flow  |  | Mcfd @ 14.   | 65 psia  |   | Deliverab  | ility  |  |  | Vicfd @ 14.65 psi                            | ia   |
| The under   | rsigned authority, o   | on behalf of the   | Company, s   | tates that I  | ne is duly au  | uthorized t                                      | to make th   | ne above repor   | t and that he ha                             | s knowledge of   |
| e facts stated  | I therein, and that s  | said report is true  | e and correct  | . Executed  | this the 30  | <u> </u>   | day of N   | lovember   |  | , 20 12  |
|   | Witness  | (if any)   |  |   |  |  |  | For  | ompany                                       |  |
|   | VVIII18SS  | (ii aliy)  |  |   |  |  |  | ForC   | онциану                                      |  |

|                              | e under penalty of perjury under the laws of the state of Kansas that I am authorized to request us under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc  |
|------------------------------|--|
| correct to th<br>of equipmer | e foregoing pressure information and statements contained on this application form are true and the best of my knowledge and belief based upon available production summaries and lease records and installation and/or upon type of completion or upon use being made of the gas well herein named. It requests a one-year exemption from open flow testing for the Rueb Farm 31-16 |
|                              | the grounds that said well:  |
|                              | Check one)  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  |
| staff as nec                 | essary to corroborate this claim for exemption from testing.   |
| Date: <u>11/30</u>           | )/2012   |
|                              | Signature:  Title: Regulatory Analyst  |

## 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.