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

| Type Test:   |                 |   |  |   | (See Instructions on Reverse Side)           |   |                      |  |  |   |                  |                                |   |                              |  |
|--|-----------------|---|--|---|--|---|----------------------|--|--|---|------------------|--------------------------------|---|------------------------------|--|
| Open Flow  |                 |   |  | Tast Date   | Test Date: API No. 15                        |   |                      |  |  |   |                  |                                |   |                              |  |
| Deliverabilty  |                 |   |  | Test Date   | 15-023-21313-00-00                           |   |                      |  |  |   |                  |                                |   |                              |  |
| Company<br>Noble Energy Inc                          |                 |   |  |   | Lease<br>R. Zweygardt                        |   |                      |  | Wel<br>44-32                             |   |                  |                                | mber  |                              |  |
| County Location Cheyenne S2-SE-SE                    |                 |   |  | Section<br>32   |  | TWP<br>5S   |                      |  | (E/W)                                    |   | Acres Attributed |                                |   |                              |  |
| Field<br>Prairie Star                                |                 |   | Reservoir                                    |   | · · · · · · · · · · · · · · · · · · ·        |   |                      | Sathering Con.<br>er Morgan                            | nection                                  |   |                  |                                |   |                              |  |
| Completion Date<br>6/3/2011                          |                 |   |  | · · · · · · · · · · · · · · · · · · ·   | Plug Bac<br>1519'                            | k Total De  | epth                 |  | Packer Set at                            |   |                  |                                | ·   |                              |  |
| Casing Size<br>7", 4-1/2"                            |                 |   | Weight<br>17#, 1                             |   | Internal C                                   |   |                      | Set at<br>391,1559'                                    |  | rforations<br>336'  |                  | то<br>1362'                    |   |                              |  |
| Tubing Size  |                 |   | Weight                                       |   | 9-7/8", 6-1/4"<br>Internal Diameter<br>1.995 |   |                      | Set at   |  | rforations  |                  | To                             |   |                              |  |
| Type Completion (Describe)                           |                 |   |  |   | lion   | Pump Unit or Traveling                                    |                      |  |  | Plunger? Yes / No   |                  |                                |   |                              |  |
| Single (gas) Producing Thru (Annulus / Tubing)       |                 |   |  |   | Saltwater % Carbon Dioxide                   |   |                      |  | Yes Rod Pump  % Nitrogen Gas Gravity - G |   |                  |                                |   |                              |  |
| rioducing<br>Tubing                                  | , ,,,,,         | f-Arit  | iaius i Tubilly                              | ,   | /6 C   | ALOUIT DI   | VAIGO                |  | \0 IAII                                  | .ogon   | ,                | uas ure                        | avity - C                                   | 's                           |  |
| Vertical D   | epth(F          | )   | <u>.                                    </u> |   |  | Pr  | essure Taps          | 3  | <del></del> .                            |   |                  | (Meter F                       | Run) (Pr                                    | over) Size                   |  |
|  |                 |   |  |   |  |   |                      |  |  |   |                  |                                |   |                              |  |
| Pressure   | Buildu          |   | Shut in11/1                                  |   | 0_13_at_8                                    | :30   | _ (AM) (PI           | M) Taken.  |  | 2   | 0 at_            |                                | (.  | 4M) (PM)                     |  |
| Well on L  | ine:            | :   | Started 11/2                                 | 20 20   | 0 <u>13</u> at <u>8</u>                      | :30   | _ (PI                | M) Taken.  |  | 2   | 0 at_            |                                | (.  | AM) (PM)                     |  |
|  |                 |   |  |   |  | OBSER   | VED SURF             | ACE DATA   | \  |   | Duration         | of Shut-i                      | <sub>n_24</sub>                             | Hours                        |  |
| Static /<br>Dynamic                                  | Orifi<br>Siz    | в   | Circle one:<br>Meter<br>Prover Pressui       | Pressure<br>Differential<br>re in   | Flowing<br>Temperature                       |   | Wellhe               | Casing Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$ |  | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>c</sub> ) |                  | Duration<br>(Hours)            |   | Liquid Produced<br>(Barrels) |  |
| Property   | roperty (inches |   | psig (Pm)                                    | Inches H <sub>2</sub> 0   |  | 1   | psig                 |  |  | psig psia   |                  | 1                              |   | <b></b>                      |  |
| Shut-In  |                 |   |  |   |  |   | 62                   |  |  |   |                  |                                |   |                              |  |
| Flow   |                 |   |  |   |  |   |                      |  |  |   |                  |                                |   |                              |  |
|  |                 |   |  |   |  | FLOW S  | TREAM AT             | TRIBUTES   | S  |   |                  |                                |   |                              |  |
| Plate  | 1               |   | Circle one:                                  | Press   | Grav   | vity  | Flowing              |  | Deviation                                | Metered Fl  | ow               | GOR                            |   | Flowing                      |  |
| Coefficient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd |                 | Meter or<br>Prover Pressure                                     |  | Extension   | Fac  | or  | Temperatur<br>Factor | re   | Factor<br>F <sub>pv</sub>                | R   |                  | (Cubic Fee                     | et/   | Fluid<br>Gravity             |  |
|  |                 |   | psia   | √ P <sub>m</sub> xh   | F  | •   | F,,                  | F <sub>tt</sub>  |  | (Mcfd)  |                  | Barrel)                        |   | G <sub>m</sub>               |  |
|  |                 |   |  |   |  |   |                      |  |  |   |                  |                                |   |                              |  |
|  |                 |   |  |   | (OPEN FL                                     | OW) (DEL  | IVERABILI            | TY) CALC   | ULATION                                  | s   |                  | (P <sub>a</sub> ) <sup>2</sup> | = 0.26                                      | 07                           |  |
| P <sub>c</sub> ) <sup>2</sup> =                      |                 | _:_   |  | <del>:</del>  | P <sub>d</sub> =                             |   | <del>_</del> %       | (P <sub>c</sub> - 14.4                                 | 1) + 14.4 =                              | ::  |                  | (P <sub>d</sub> ) <sup>2</sup> | <u> </u>                                    | <del></del>                  |  |
| $(P_c)^2 - (P_a)^2$<br>or<br>$(P_c)^2 - (P_d)^2$     |                 | (P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> |  | 1. P <sub>c</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> | LOG of<br>formula<br>1. or 2.<br>and divide  | P <sub>c</sub> <sup>2</sup> · P <sub>w</sub> <sup>2</sup> |                      | Backpressure Curve Slope = "n" or Assigned             |  | n x LOG   |                  | ilog                           | Open Flow Deliverability Equals R x Antilog |                              |  |
|  |                 |   |  | tivided by: $P_c^2 - P_w^2$   | by:  |   | _] St                | andard Slop  | e  |   |                  |                                |   | Mcfd)                        |  |
|  |                 | <u>_</u>  |  |   |  |   |                      |  |  |   |                  | •                              |   |                              |  |
| Open Flow Mcfd @ 14.65 psia                          |                 |   |  |   |  | Deliverability  |                      |  |  | Mcfd @ 14.65 psia   |                  |                                |   |                              |  |
| The i  | undersi         | ianer   | d authority, or                              |   |  | states tha  | t he is duly         | authorize  | d to make                                | e the above rep   | ort and th       | at he ha                       | s know!                                     | edge of                      |  |
|  |                 | -   | •  | id report is true   |  |   | -                    |  |  | ·   |                  |                                |   | 20 13                        |  |
|  |                 |   |  |   |  |   | _                    | <del></del>  |  |   |                  | .                              | (CC   | <u>WICH</u> I                |  |
|  |                 |   | Witness (if                                  | any)  |  |   |                      |  |  | Fo  | r Company        |                                | •   |                              |  |
|  |                 |   | For Commi                                    | ssion   |  |   | -                    |  |  | Cř  | ecked by         |                                | UCL   | 3 1 2013                     |  |

| exempt status u                                      | nder penalty of perjury under the laws of the state of Kansas that I am authorized to request under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc   |
|--|---|
| correct to the be<br>of equipment in<br>I hereby rec | regoing pressure information and statements contained on this application form are true and est of my knowledge and belief based upon available production summaries and lease records stallation and/or upon type of completion or upon use being made of the gas well herein named. Quest a one-year exemption from open flow testing for the R Zweygardt 44-32 grounds 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 ree to supply to the best of my ability any and all supporting documents deemed by Commission              |
| Date: 12/27/13                                       | ary to corroborate this claim for exemption from testing.   |
|  | Signature: Completions Supervisor   |

## 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. Signed and dated on the front side as though it was a verified report of annual test results.

DEC 3 1 2013