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

| Type Test  | t:                   |        |  |  | (   | See Instruc  | tions on Rev  | verse Side  | e)   |                              |                             |   |  |
|--|----------------------|--------|--|--|---|--|---|---|--|------------------------------|-----------------------------|---|--|
| Open Flow Deliverabilty  |                      |        |  |  | Test Date                                   | <b>:</b> :   |   | API No. 15<br>15-023-20798-00-00                  |  |                              |                             |   |  |
| Company<br>FOUNDATION ENERGY MANAGEMENT, L                           |                      |        |  | LLC  |   | Lease<br>RAILE   |   |   | Well Number<br>41-31   |                              |                             |   |  |
| County Location CHEYENNE NENE  |                      |        |  | Section<br>31  |   | TWP<br>3S  |   | RNG (E/W)<br>41W                                  |  | Acres Attributed             |                             |   |  |
| Field<br>CHERRY CREEK  |                      |        |  | Reservoir<br>NIOBRA  |   |  |   |   | thering Conne<br>HERN STAR/  | nnection<br>R/KINDER MORGAN  |                             |   |  |
| Completic<br>8/27/200  |                      | te     |  |  | Plug Bac<br>1589'                           | k Total Dep  | th  |   | Packer S   | Set at                       |                             |   |  |
| Casing S 7", 41/2"   |                      |        | Weight<br>17#, 9   |  |   | Internal Diameter 6.538, 4.090                           |   | Set at<br>302', 1645'                             |  | Perforations<br>1454'        |                             | To<br>1496'   |  |
| Tubing Si 2-3/8"   | ze                   |        | Weight<br>4.7#   |  | Internal Diamete<br>1.995"                  |  | Set at<br>1507'                                     |   | Perforations   |                              | То                          |   |  |
| Type Con   |                      |        | escribe)   |  |   | d Production   | n   |   |  | nit or Traveling<br>PUMP UNI |                             | / No  |  |
| Producing  |                      | (Anı   | nulus / Tubing   | )  | % C   | arbon Dioxi  | de  |   | % Nitrog   | jen                          | Gas Gr                      | avity - G <sub>g</sub>                                      |  |
| Vertical D   |                      | 1)     |  |  |   | Pres   | sure Taps   |   |  |                              | (Meter I                    | Run) (Prover) Size  |  |
| Pressure   | Buildu               | p:     | Shut in1/28  | , , ,  | 0 15 at 1                                   | 1:00 AM  | (AM) (PM)   | Taken   |  | 20                           | at                          | (AM) (PM)   |  |
| Well on L  | ine:                 |        | Started 1/29   | 2  | 0 <u>15</u> at <u>1</u>                     | 2:30 PM  | (AM) (PM)   | Taken   |  | 20                           | at                          | (AM) (PM)   |  |
|  |                      |        | -  |  |   |  | D SURFACE   |   |  |                              | Duration of Shut-           | 25.5  |  |
| Static /<br>Dynamic<br>Property                                      | Dynamic Size         |        | Circle one:<br>Meter<br>Prover Pressur<br>psig (Pm)            | Pressure Differential in Inches H <sub>2</sub> 0   | Flowing Well Her Temperate                  |  | I Wallboad Proceure                                 |   | Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> ) psig psia |                              | Duration<br>(Hours)         | Liquid Produced<br>(Barrels)                                |  |
| Shut-In  |                      |        |  |  |   |  | psig  | 95  | psig   | psra                         |                             |   |  |
| Flow   |                      |        |  |  |   |  |   | •   |  |                              |                             |   |  |
|  |                      |        |  |  | ·   | FLOW STR   | EAM ATTRI   | BUTES   |  |                              |                             |   |  |
| Plate<br>Coefficcient<br>(F <sub>b</sub> ) (F <sub>p</sub> )<br>Mcfd |                      | Pro    | Circle one:<br>Meter or<br>over Pressure<br>psia               | Press<br>Extension   | xtension Fact                               |  | Flowing<br>Femperature<br>Factor<br>F <sub>II</sub> | Deviation<br>Factor<br>F <sub>pv</sub>            |  | Metered Flow<br>R<br>(Mcfd)  | GOR<br>(Cubic Fe<br>Barrel) | l Gravitu I   |  |
|  |                      |        |  |  | <u> </u>                                    |  |   | <u> </u>  |  | -                            |                             |   |  |
| (P <sub>c</sub> ) <sup>2</sup> =                                     |                      | _;     | (P <sub>w</sub> ) <sup>2</sup> =_                              | :  | •   |  | <b>ERABILITY)</b><br>% (P                           | CALCUL<br>- 14.4) +                               |  | :                            |                             | <sup>2</sup> = 0.207<br><sup>2</sup> =                      |  |
| (P <sub>c</sub> ) <sup>2</sup> - (F                                  | °)2                  |        | P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> | thoose formula 1 or 2<br>1. $P_c^2 - P_a^2$<br>2. $P_c^2 - P_d^2$<br>vided by: $P_c^2 - P_w^2$ | 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> | Slop<br>Ass   | sure Curve<br>e = "n"<br>or<br>igned<br>ard Slope | l n x  | rod                          | Antilog                     | Open Flow<br>Deliverability<br>Equals R x Antilog<br>(Mcfd) |  |
|  |                      |        |  |  |   |  |   |   |  |                              |                             |   |  |
| Open Flor  | N                    |        | <u>.</u>   | Mcfd @ 14.   | 65 psia                                     |  | Deliverabi  | lity  |  | 1                            | /lcfd @ 14.65 psi           | <u>a</u>  |  |
|  |                      | _      | -  |  | - •   |  | •   |   |  | -                            | t and that he ha            | s knowledge of  |  |
| uie ideis Si   | iai <del>e</del> u I | ııerel | n, and that sai  | u report is tiut   |   | Parair   |   |   | uay or <u></u>   |                              |                             | , 20 <u></u> .  |  |
|  |                      |        | Witness (if  | eny)   | _   | CORPORATIO   | N COMMISSIO   | N   |  | For Co                       | ompany                      |   |  |
|  |                      |        | For Commis   | sion   | F   | EB 0 9   | 2015 -  |   | <del></del>  | Check                        | sed by                      |   |  |

CONSERVATION DIVISION WICHITA, KS

| I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Foundation Energy Management, LLC | st   |
|---|------|
| and that the foregoing pressure information and statements contained on this application form are true an   | -d   |
| correct to the best of my knowledge and belief based upon available production summaries and lease record   | ls   |
| of equipment installation and/or upon type of completion or upon use being made of the gas well herein named  | J.   |
| I hereby request a one-year exemption from open flow testing for the RAILE 41-31  | _    |
| gas well on 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  |      |
| as producting an in all my continuous or a continuous   |      |
| I further agree to supply to the best of my ability any and all supporting documents deemed by Commis   | sion |
| staff as necessary to corroborate this claim for exemption from testing.  |      |
|   |      |
| Date: 2/6/2015  |      |
|   |      |
| Signature: Lugue Nather   |      |
| Received  | -    |
| FEB 0 9 2015  | -    |
| CONSERVATION DIVISION   |      |
| WICHITA, KS   |      |

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.