KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | t: | | | | • | , | (See Instruc | tions on Re | everse Sid | e) | | | | |
|----------------------------------------------------------------------------------|-------------------------|--------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------|-----------------------------------------------------|----------------------------------------------------------|-------------------------------------|-------------------------------|------------------------------------|-----------------------------------|-------------------------------------------------|
| = : | en Flo liverab | | | | | Test Date | e : | | | | I No. 15 -023-20885- | 00-00 | | |
| Company Noble E | | Inc | | | | | | Lease Raile | | | | 41-6 | Well Nu | mber |
| County Cheyenr | ne | | Loca NE-NE | | | Section 6 | | TWP 4S | | RNG (E | :/W) | | Acres A | Attributed |
| Field Cherry C | Creek | | | | : | Reservoi Niobrar | | | | | thering Conn ern Star/Kind | | | |
| Completic 2/13/200 | | е | | | | Plug Bac 1558' | k Total Dep | th, | | Packer | Set at | | | |
| Casing S 7", 4-1/2 | | | Weig 17#, | | 5# | Internal I 9-7/8", | | Set 237 | at 7', 1601' | | orations 8' | To 1487 | | |
| Tubing Si 2-3/8" | ize | • | Weig 4.7# | | | Internal I | | Set 151 | at | | orations | То | | |
| Type Con Single (| - | n (De | escribe) | <u> </u> | | Type Flui Saltwa | id Production | n | *************************************** | Pump U Yes | nit or Traveling | g Plunger? Yes | / No | |
| Producing Tubing | Thru | (Ann | nulus / Tubir | ng) | | % (| Carbon Dioxi | ide | | % Nitro | gen | Gas G | ravity - (| <u> </u> |
| Vertical D | epth(H | 1) | | | | | Prés | sure Taps | | | ***** | (Meter | Run) (P | rover) Size |
| Pressure | Buildu | p: (| Shut in 3/2 | 2 | | | 2:40 | (AM) (PM) | Taken | | 20 | at | (| (AM) (PM) |
| Well on L | ine: | 5 | Started 3/3 | 3 | 2 | 0 <u>11</u> at <u>1</u> | 2:40 | (AM) (PM) | Taken | | 20 | at | (| AM) (PM) |
| | | | | | | | OBSERVE | D SURFAC | CE DATA | | | Duration of Shut | -in_24 | Hours |
| Static / Dynamic Property | Orifi Size (inche | e | Circle one: Meter Prover Press | Cole one: Pressure Differential repressure In Indices Indice | | Tubing ead Pressure or (P _t) or (P _c) | Duration (Hours) | Liquid Produced (Barrels) | | | | | | |
| Shut-In | | - | Pois (cm) | | | | | psig 150 | psia | psig | psia | | - | 1 |
| Flow | | | | | | | | | | | · | | | |
| | | | | 1 | ă. | | FLOW STR | EAM ATT | RIBUTES | | | | - | |
| Plate Coeffieci (F _b) (F Mcfd | ent ,) | | Circle one: Meter or ver Pressure psia | | Press Extension Pmxh | Grav Fac F | tor 1 | Flowing Temperature Factor F _{f1} | Fa | viation actor F _{pv} | Metered Flor R (Mcfd) | w GOR (Cubic Fo Barrel | et/ | Flowing Fluid Gravity G _m |
| <u></u> | | | | 1 | | (OPEN FL | OW) (DELIV | ERABILITY | Y) CALCUI | ATIONS | • | | | |
| (P _c) ² = | | _: | (P _w) ² = | | <u> </u> | | | | P _c - 14.4) + | | <u></u> : | (P _a (P _d |) ² = 0.2 ¹ | 07 |
| (P _c) ² - (F or (P _c) ² - (F | - 1 | (P, | _c)²- (P _w)² | 1 2 | se tormula 1 or 2: $P_c^2 - P_a^2$ $P_c^2 - P_d^2$ of by: $P_c^2 - P_w^2$ | LOG of formula 1. or 2. and divide by: | P.2-P.2 | Slo As | essure Curve ope = "n" or ssigned dard Slope | l n x | rog | Antilog | Deli Equals | en Flow iverability R x Antilog (Mcfd) |
| | | | | - | · - · · · · · · · · · · · · · · · · · · | | | | | | | | | |
| Open Flov | v | | | 1 | Mcfd @ 14.6 | 65 psia | | Deliverat | bility | <u></u> | | Mcfd @ 14.65 ps | ia | |
| The u | ındersi | gned | authority, o | n be | half of the | Company, s | states that h | e is duly a | uthorized t | o make ti | ne above repo | ort and that he ha | as know | edge of |
| he facts st | ated th | nereir | n, and that s | aid r | eport is true | and correc | t. Executed | this the 1 | 5 | day of _C | ecember | // | - PE | 20 11 |
| | | | Witness (| if any) | | | | - | Ch | ery | X Por | Company | ישבו | FIVED |
| | | | For Comm | | | | | - | | <u> </u> | <u> </u> | cked by | UEL | 2 8 2011 |
| | | | . 3. 00/111 | | | | | · | | | Olle | K | CC v | 2 8 2011 VICHIT, |

| I declare und | ler penalty of perjury under the laws of the state of Kansas that I am authorized to request |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| exempt status un | der Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc |
| and that the fore | going pressure information and statements contained on this application form are true and |
| correct to the bes | t of my knowledge and belief based upon available production summaries and lease records |
| of equipment inst | allation and/or upon type of completion or upon use being made of the gas well herein named. |
| I hereby requ | est a one-year exemption from open flow testing for the Raile 41-6 |
| gas well on the g | rounds 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 |
| | |
| | |
| I further agre | e to supply to the best of my ability any and all supporting documents deemed by Commissio |
| | e to supply to the best of my ability any and all supporting documents deemed by Commissio y to corroborate this claim for exemption from testing. |
| | |
| staff as necessar | y to corroborate this claim for exemption from testing. |
| staff as necessar | y to corroborate this claim for exemption from testing. |
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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.

DEC 28 2011