KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

| Type Test | | | | | (| See Instruct | tions on Re | verse Side | 9) | | | | |
|--|---|-------------------------|---|---|-----------------------------|---|--|--|--|--|----------------------------|---------------------------|--|
| | en Flow eliverabil | | | | Test Date | : : | | | | No. 15 181-20544- | 00-00 | | |
| Company Noble E | | nc | | | | | Lease Billinge | • | | | 13-1 | Well Nu | mber |
| County Location Sherman E2-NW-SW | | Section 1 | , , , | TWP 6S | | RNG (E/W) 40W | | | Acres Attributed | | | | |
| | | | | Reservoir Niobrara | | | | Gas Gathering Connection Kinder Morgan | | | | | |
| · | | | Plug Bac 1547 | Plug Back Total Depth 1547 | | | | et at | | | | | |
| Casing S 7", 4-1/2 | | | Weight 17#, 9.5# | | | Internal Diameter 9-7/8", 6-1/4" | | Set at 417', 1590' | | rations | то 1396 | | |
| Tubing Size 2 3/8 | | | Weight 4.7# | | Internal Diameter 1.995 | | Set at | | Perforations | | То | | * |
| Type Con Single (| | | | | | d Production | n | | Pump Ur Yes | nit or Traveling | g Plunger? Yes | / No | |
| Producing | | Annulus / | Tubing) | | | Carbon Dioxi | de | | % Nitrog | en | Gas G | iravity - C | 3, |
| Vertical D | Depth(H) | | | | | Pres | sure Taps | | | | (Meter | Run) (P | rover) Size |
| Pressure | Buildun | : Shut in | 10/23 | 3 | 13 _{at} 7 | :30 | (AM) (PM) | Taken | | 20 | at | | 'AM) (PM) |
| Well on L | • | | 10/24 | 1 2 | 0 13 at 8 | :30 | (AM) (PM) | Taken | | 20 | at | (| (AM) (PM) |
| | | | | | | | D SURFAC | | | | Duration of Shu | 25 | Hours |
| Static / Dynamic Property | Orific Size (inche | Prove | cle one: feter Pressure g (Pm) | Pressure Differential in Inches H ₂ 0 | Flowing Temperature t | Well Head Temperature t | Cas Wellhead (P _w) or (F | Pressure | Weliher (P _w) or | ubing ad Pressure (P ₁) or (P _c) | Duration (Hours) | n Liquid Produced | |
| Shut-In | | | , | 2 | | | psig 42 | psia | psig | psia | | | |
| Flow | | | | | | | | | | | | | |
| | | Circle on | | | | FLOW STR | EAM ATTR | IBUTES | ··· · | | <u> </u> | | |
| Coeffiec (F _b) (F | Plate Coefficient (F _b) (F _p) Pr Mcfd | | e: Of ssure | Evicacion 1 | | vity tor | Temperature Fa | | viation Metered Flo actor R F _{pv} (Mcfd) | | W GOF (Cubic F Barre | eet/ | Flowing Fluid Gravity G _m |
| l | | | | | (OPEN EL | OW) (DELIV | EDADU ITV | \ | ATIONS | ·· | | | |
| (P _c) ² = | | : | (P _w)² = | :_ | P _d = | • • | | • | 14.4 = | : | | $()^2 = 0.2$ $()^2 = $ | 07 |
| (P _c) ² - (I or (P _c) ² - (I | T I | (P _c)² ⋅ (P | w) ² | oose formula 1 or 2 1. $P_c^2 \cdot P_e^2$ 2. $P_c^2 \cdot P_d^2$ idea by: $P_c^2 \cdot P_w$ | LOG of formula 1. or 2. | P _c ² · P _w ² | Slo As | ssure Curve pe = "n" - or signed ard Slope | nxi | LOG [| Antilog | Deli Equals | oen Flow iverability s R x Antilog (Mcfd) |
| | | | | | | | | | | | | | |
| Open Flo | w | | | Mcfd @ 14 | .65 psia | | Deliverat | oility | | | Mcfd @ 14.65 ps | sia | |
| | - | | - | behalf of the | • | | • | | | • | ort and that he h | | ledge of 20 |
| are racis s | naieu III | arem, and | mai Salo | report is tru | e and conec | a. Executed | ans the | | uay UI | | k | | WICHIT |
| | | 1 | Vitness (if a | ny) | | | - | • | | For | Company | DEC : | 3 0 2013 |
| *************************************** | | f | or Commiss | ion | | | - | | | Che | ecked by | | CEIVED |

| | eclare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Noble Energy Inc |
|-----------------------------|--|
| correct of equip I he | t the foregoing pressure information and statements contained on this application form are true and to the best of my knowledge and belief based upon available production summaries and lease records ment installation and/or upon type of completion or upon use being made of the gas well herein named reby request a one-year exemption from open flow testing for the Billinger 13-1 I 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 rther agree to supply to the best of my ability any and all supporting documents deemed by Commiss necessary to corroborate this claim for exemption from testing. |
| Date: _1 | 2/5/2013 |
| | Signature: Cleryl Johnson Title: 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 0 2013

RECEIVED